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ACCREDITATION

Mt. San Antonio College is reviewed and accredited by the Accrediting Commission for Community and Junior Colleges (ACCJC) of the Western Association of Schools and Colleges. This accreditation authorizes the College to offer courses that parallel the first two years of the curricula for state universities. The ACCJC can be contacted in writing at 10 Commercial Boulevard, Suite 204, Novato, California 94949 or by phone at (415) 506-0234.

CATALOG CONTENT CHANGES

Mt. San Antonio College has made every effort to assure the accuracy of the information in this Catalog. Students and others should note that policies, rules, procedures, and regulations change and that these changes may alter the information in this publication. This Catalog is not intended to be a complete statement of policies, rules, procedures, and regulations. More current or complete information may be obtained from the appropriate administrative office and the online version of this Catalog.

The College reserves the right to change, without notice, any academic or other requirement, course offering, or course content contained in this Catalog.

The 2009-10 Catalog does not constitute a contract or terms of a contract between the student and the College.

Mt. San Antonio College 1100 North Grand Avenue Walnut, California 91789

(909) 594-5611 TTY# (909) 594-3447 (Hearing Impaired)

www.mtsac.edu

Building for the Future

As this catalog cover design illustrates, Mt. San Antonio College continues to build for the academic future of its students and the community-at-large. Not only are we transforming the campus into a more inviting, greener, and high-tech learning environment, we are also engaged in an ongoing effort to enrich our programs and services to meet the various needs of our diverse student population.

In this catalog, you will find more than 200 degree and certificate programs, as well as a full range of basic skills and personal development courses. I encourage you to use the catalog as your planning and resource guide to explore the vast scope of opportunities, services and programs that Mt. SAC offers.

We offer excellent university transfer, career and lifelong learning programs that empower you with the knowledge and skills needed to succeed in a diverse and inter connected world. Our curriculum is in step with the fast-changing needs of today's dynamic employment sectors.

As the largest of California's 110 community colleges, Mt. SAC regards itself as the "College of Champions." In virtually every academic, athletic and cultural discipline, our students have excelled to the top, garnering local, state, national and even international honors. We are very proud of these accomplishments and the distinction that both faculty and student efforts continue to bring to the College.

We remain committed to helping you build your future.

Dr. John S. Nixon President & CEO

Fred Chyr, President Dr. David K. Hall, Vice President

BOARD OF TRUSTEES

Judy Chen Haggerty, Esq., Clerk Rosanne M. Bader, Member Dr. Manuel Baca, Member Xavier Padilla, Student Trustee (l-r) Chyr, Baca, Nixon, Haggerty, Bader, Hall

EXCELLEN

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2009-10 College Calendar

Fall 2009

| July 4 | Independence Day (campus closed) |
|-------------------------|---|
| July 6 | International student admission application due for Fall Semester |
| July 22 | Fall Semester Credit and Continuing Education registration opens |
| August 23 | Residency determination date |
| August 24 | Fall Semester begins |
| September 4 | Last day to add a class |
| September 4 | Last day to change residency for Fall Semester |
| September 7 | Labor Day (campus closed) |
| September 11 | Last day to withdraw without a "W" for 16-week classes |
| September 25 | Last day to change grading option for 16-week classes |
| October 9 | Last day to petition for Fall Semester graduation |
| October 30 | Last day to withdraw from Fall Semester 16-week classes |
| November 5 | International student application due for Winter Intersession |
| November 11 | Veteran's Day (campus closed) |
| November 18 | Winter Intersession registration opens |
| November 26 - 29 | Thanksgiving Recess (campus closed) |
| December 3 | International student application due for Spring Semester |
| December 10 - 13 | "Book Buy Back" at SacBookRac |
| December 10 - 13 | Final Exams |
| December 13 | Fall Semester ends |
| December 24 - January 3 | Winter Recess for students |

2009-10 College Calendar

Winter 2010

| January 1, 2010 January 4 January 18 January 19 – | New Year's Holiday (campus closed) Winter Intersession begins Martin Luther King, Jr. Day (campus closed) Spring Semester Credit and Continuing Education registration opens |
|---|---|
| February 12 | Lincoln's Birthday (campus closed) |
| February 14 | Winter Intersession ends |
| February 15 | Washington's Birthday (campus closed) |

Spring 2010

| February 19 February 22 | Flex/Staff Development Day Spring Semester begins |
|----------------------------|--|
| March 5 | Last day to add a 16-week class |
| March 19 | Last day to withdraw without a "W" for 16-week classes |
| March 31 | Cesar Chavez Day of Observance (campus closed) |

| | JANUARY 2010 | | | | | | | | | | |
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2009-10 College Calendar

Spring 2010 (continued)

| May 7 | Last day to withdraw from Spring Semester |
|-------------|--|
| May 7 | Last day to petition for Commencement |
| May 31 | Memorial Day (campus closed) |
| June 7 - 13 | Final Exams (see schedule in Spring Schedule of Classes) |
| June 11 | Commencement |
| June 13 | Spring Semester ends |

Summer 2010

| June 28 | Summer Intersession begins | | |
|---|----------------------------|--|--|
| July 4 Independence Day (campus closed) | | | |
| August 8 | Summer Intersession ends | | |

COLLEGE DIRECTORY

The main College telephone number is (909) 594-5611. After you have reached the College, dial your desired extension.

| After you nave reached the College, dial your desired extension. | | | | | | |
|--|--------------|---|---------|---|--------------------------|--|
| Academic Counselor for Student Athletes | 5929 | *ESL & Intercultural Programs | | Payroll | | |
| Academic Senate | 5436 | Event Services | | Performing Arts Center Box Office | | |
| *Accounting & Management | . 4909, 4910 | Exercise Science/Wellness Center | | Performing Arts Operations | | |
| Advising | | Express Stop | | Photo I.D. | | |
| Administrative Services | | Extended Opportunity Programs & Serv. (EOPS) | | *Physical Education Division | | |
| Admissions & Records | | Facilities Planning & Management | | *Physical Therapy Aide | | |
| *Aeronautics & Transportation | | Faculty Association | | *Physics, Engineering | | |
| Affirmative Action | | Farm Tours | | Planetarium Shows | | |
| *Agricultural Sciences | | Financial Aid | | President & Board of Trustees | | |
| *Air Conditioning & Welding | | *Fine Arts | | Printing Services | | |
| *Aircraft Maintenance & Manufacturing | | *Fire Technology | | Professional & Organizational Development | | |
| *Alumni Association | , | Fiscal Services | | *Psychology, Education | | |
| | | | | | | |
| *American Language | | *Foreign Languages | | *Psychiatric Technician | | |
| *Architecture & Design | | Foundation Office | | *Public Services | | |
| Art Gallery | | Grants Office | | Purchasing | | |
| *Arts Division | | Grounds Service Requests | | Quick Stop | | |
| Assessment Center | | *Health Careers Resource Center | | *Radiologic Technology | | |
| Associated Students | | Health Center | | Re-Entry Center | | |
| *Athletics | | Help Desk (IT) | | Regional Health Occupations Resource Center | | |
| Auxiliary Services | | High School Outreach | | *Registered Veterinary Technology | | |
| *Biological Sciences | | *History, Art History, Geography, Political Science | | Registration | | |
| Bookstore (SacBookRac) | 4475 | *Histotechnology | | Research & Institutional Effectiveness | 5408, 4109 | |
| Bridge Program | 5392 | Honors Program | 4665 | *Respiratory Therapy | | |
| Broadcast Services | 4274 | Horticulture Unit | 4893 | Risk Management | | |
| *Business Administration | 4612 | *Humanities & Social Sciences Division | 4570 | SacBookRac | | |
| *Business Division | 4600 | Human Resources | 4225 | Security (Campus) | | |
| Bursar's Office | 4960 | Information Technology | 4365 | *Service Learning | | |
| CalWORKs | 4755 | Instruction Office | 4200 | Short Stop | | |
| Campus Café | | KSAK Studio | | *Sign Language | | |
| Campus Security | | *Language Learning Center | | Small Business Development Center | | |
| Career Placement Services | | *Learning Assistance Center | | *Sociology, Philosophy | | |
| Center of Excellence | | Learning Lab | | Special Events | | |
| *Chemistry | | Library | | Stadium Ticket Office | | |
| *Child Development | | *Library & Learning Resources Division | | Student Center | | |
| Child Development Center | | Lost & Found (Student Life) | | Student Life & Student Clubs | | |
| *Commercial & Entertainment Arts | | Maintenance & Operations | | Student Services, Dean | | |
| Common Grounds Café | | Marketing & Public Affairs Office | | Student Services, V.P. Office | | |
| *Communication | | *Mathematics, Computer Sciences | | *Teacher Prep Institute | | |
| *Continuing Education Division | | Media Services | · · · · | | | |
| | | | | Technical Services | | |
| Continuing Education Center | | *Medical Services | | *Technology & Health Division | | |
| *Computer Information Systems | | *Mental Health Technology | | Technology Education Resource Center | | |
| *Consumer Science & Design Technologies | | Mountie Grill | | *Theater | | |
| Contract Education | | Mountie Stop | | Transfer Center | | |
| *Counseling & Advising Services | | *Music | | Tutorial Services | | |
| CSEA 262 | | *Natural Sciences Division | | Upward Bound | | |
| Custodial Services | | *Noncredit Programs | | Veterans' Service Center | | |
| *Dance | | *Nursing | | Warehouse | | |
| Disabled Student Programs & Services (DSP&S) | | *Office Technology | | Wellness Center | | |
| Distance Learning | | Online Learning Support Center | | Wildlife Sanctuary Tours | 4794 | |
| *Earth Sciences & Astronomy | | Parking Office | 4233 | | | |
| *Electronics & Computer Technology | . 4978, 5614 | Parking Services Cashier | | | | |
| *English, Literature & Journalism | | *Paralegal | | * Instructional | programs and departments | |
| | | | | | , , , | |

2009-10 Mt. San Antonio College Catalog ix

Section 1 The College

The College

THE COLLEGE

MT. SAN ANTONIO COLLEGE

Mt. San Antonio College (Mt. SAC) is a public community college that offers a diversified educational program designed to prepare students for success in today's diverse economic professional, technical and cultural sectors. The objectives of the education program are to:

- prepare students for transfer to baccalaureate-level colleges and universities;
- increase vocational competence resulting in usable and marketable occupational skills;
- provide a general education emphasizing basic skills and appreciation of our shared scientific, technological, historical and artistic heritage;
- promote continuing education and lifelong learning;
- assist the student through guidance to know and develop his/her abilities in relation to his/her potential; and
- provide community service and adult education.

The College offers courses of study through a semester system. Each semester, Fall and Spring, is 16 weeks in length, while summer and winter sessions are six weeks long. Many courses are offered in an accelerated mode.

Instruction at Mt. SAC is organized under a divisional structure with departments within each division. At present, the College has eight instructional divisions within which are 44 departments.

HISTORY

The Mt. San Antonio Community College District was created in December, 1945, when voters of four local high school districts approved the formation of a community college district. Initially known as Eastern Los Angeles County Community College, the institution was later renamed Mt. San Antonio College after the most visible snow-capped mountain (popularly known as Mt. Baldy) in the distance behind the campus.

The 421-acre campus was originally part of the 48,000-acre La Puente Rancho. During World War II, the facility was converted into an Army hospital and later a Navy hospital.

Mt. SAC opened in the fall of 1946 with 635 students occupying a few Spanish-tiled buildings and temporary Navy barracks clustered below the San Jose Hills. Walnut, not yet an incorporated city, consisted of very little except dirt roads, cacti, and grasslands covered in the spring with wild mustard grass.

Not surprisingly, the growth of Mt. SAC has mirrored that of the local area. The College now serves the communities of Baldwin Park, Bassett, Charter Oak, Covina, Diamond Bar, the southern portion of Glendora, Hacienda Heights, City of Industry, Irwindale, La Puente, La Verne, Pomona, Rowland Heights, San Dimas, Valinda, Walnut, and West Covina.

Mt. SAC has emerged as a leader in education not only in the San Gabriel Valley, but in the state. It is California's largest, singlecampus community college with a combined Credit, Continuing Education, and Community Service student enrollment of over 65,000. In 2006, Mt. SAC proudly celebrated 60 years of educational excellence. The College will continue to offer access to quality programs and services as well as provide an environment for educational excellence throughout the 21st Century.

MISSION, VISION AND VALUES

Mission

The mission of Mt. San Antonio College is to welcome all students and to support them in achieving their personal, educational and career goals in an environment of academic excellence.

Vision

It is the vision of Mt. San Antonio College:

- to become a premier community college
- to be a leader in teaching, learning, programs and services
- to provide access to quality education, focusing on student success within a climate of integrity and respect
- to consistently exceed the expectations of our students, staff, and community

Core Values

 INTEGRITY We treat each other honestly, ethically, and responsibly in an atmosphere of trust.

DIVERSITY

We respect and welcome all differences, and we foster equal participation throughout the campus community.

COMMUNITY BUILDING

We work in responsible partnerships through open communication, caring, and a cooperative spirit.

STUDENT FOCUS

We address the needs of students and the community in our planning and actions.

LIFELONG LEARNING

We promote the continuing pursuit of high educational goals through equal access to excellence in both teaching and support services.

POSITIVE SPIRIT

We work harmoniously, show compassion, and take pride in our work.



The College

BOARD OF TRUSTEES

| President Vice President Clerk Member Member Student Trustee College President & CEO | Fred Chyr Dr. David K. Hall Judy Chen Haggerty, Esq. Rosanne Bader Dr. Manuel Baca |
|--|--|
| Member | Dr. Manuel Baca |
| Student Trustee | Xavier Padilla |
| College President & CEO | Dr. John S. Nixon |

ADMINISTRATION

| Administrative Services | Ext. 4230 |
|--|-------------------|
| Vice President, Administrative Services | Michael Gregoryk |
| Associate Vice President | Linda Baldwin |
| Administrative Director, Auxiliary Services | Jay Devers |
| Director, Auxiliary Services Accounting | Sid Young |
| Director, Bookstore | Suzanne Luetjen |
| Director, Bursar's Office | Sheree Culross |
| Manager, Custodial Services | Ken McAlpin |
| Director, Facilities Planning and Management | Gary Nellesen |
| Assistant Director, Facilities, Planning and Management | Becky Mitchell |
| Facilities Project Manager | Roger Sneed |
| Assistant Director, Fiscal Services | Rosa Royce |
| Director, Food Services/Satellite Operations | Becky Carr |
| Director, Grounds and Transportation | Carol Baker |
| Director, Maintenance | Vacant |
| Director, Payroll | Donna Evans |
| Director, Public Safety | Jeff Parker |
| Assistant Director, Public Safety | Michael Montoya |
| Director, Purchasing | |
| Director, Safety, Health Benefits, and Risk Management | Karen Saldana |
| Director, Technical Services | William Eastham |
| Human Resources | Ext. 4225 |
| Interim Vice President, Human Resources | Dr. Jack Miyamoto |
| Director, Human Resources | Trinda Hoxie |
| Information and Educational Technology | Ext. 4357 |
| Chief Technology Officer | |
| Director, Enterprise Applications Systems | Sheryl Hullings |
| Director, Academic Technology and Infrastructure | Dale Vickers |
| Assistant Director, Academic Technology and Infrastructure | Shanti Atashpoush |
| President's Office | Ext. 4121/4215 |
| Director, Marketing & Public Affairs | |
| Executive Director, Mt. SAC Foundation | Richard Morley |
| | |

ADMINISTRATION (continued)

| Instruction | Ext. 4200 |
|---|--------------------------|
| Vice President, Instruction | Dr. Virginia Burley |
| Dean, Instructional Services | Dr. Deborah Boroch |
| Dean, Arts Division | Dr. Susan Long |
| Dean, Business Division | John Heneise |
| Associate Dean, Business Division | Richard Patterson |
| Director, Child Development Center | Janette Henry |
| Dean, Humanities and Social Sciences Division | Dr. Stephen A. Runnebohm |
| Associate Dean, Humanities and Social Sciences Division | James Jenkins |
| Dean, Library and Learning Resources Division | Meghan Chen |
| Director, Learning Assistance Center | |
| Dean, Natural Sciences Division | |
| Interim Associate Dean, Natural Sciences Division | Matthew Judd |
| Dean, Physical Education Division | Deborah Blackmore |
| Director, Physical Education/Wellness Programs | Joeseph Jennum |
| Dean, Technology and Health Division | |
| Associate Dean, Technology and Health Division | Jemma Blake-Judd |
| Director, Nursing Program | Susie Chen |
| Dean, Continuing Education | Donna Burns |
| Director, Basic Skills | Madelyn Arballo |
| Associate Director, Basic Skills | Omideh Sloan |
| Interim Director, Community Education and Contract Training | |
| Director, ESL and Intercultural Programs | Liza Becker |
| Assistant Director, ESL and Intercultural Programs | |
| Coordinator, ESL Curriculum and Assessment | Margaret Teske |
| Director, Grants | |
| Director, Research and Institutional Effectiveness | |
| Student Services | Ext. 4505 |
| Vice President, Student Services | Dr. Audrey Yamagata-Noji |
| Dean, Counseling | Thomas Mauch |
| Associate Dean, Counseling | Dr. Dyrell Foster |
| Dean, Student Services | Carolyn Keys |
| Dean, Enrollment Management | Dr. George Bradshaw |
| Assistant Director, Admissions and Records | Patricia Montoya |
| Director, Upward Bound | |
| Coordinator, CalWorks/CARE | |
| Director, Assessment and Matriculation | James Ocampo |
| Director, Career and Transfer Services | Heidi Lockhart |
| Director, Disabled Student Programs and Services (DSP&S) | |
| | |

The College

Ext. 4220

ADMINISTRATION (continued)

| Director, Extended Opportunity Programs and Services (EOPS) | Irene Herrera |
|---|------------------|
| Director, Financial Aid | Susan Jones |
| Director, Health Services | . Sandra Samples |
| Director, Student Life Maryan | n Tolano-Leveque |

INSTRUCTIONAL DIVISIONS

Arts Division

Dr. Susan Long, Dean

The Arts Division is composed of four departments: Art, Music, Commercial and Entertainment Arts, and Theater. The division sponsors numerous award-winning performance groups, houses an art gallery, and includes Studio Arts as well as Digital Arts and Radio and Television programs. The division sponsors student drama and music productions in the Performing Arts Center, oversees the Animation and Radio and television certificate programs, and monitors the college radio station, KSAK, as well as vocational degrees and certificates in Photography, Computer Graphics and Design for Interactive Visual Media. The division has performing groups that have competed internationally and have established top national and international ranking. For information relating to departments, programs, or events, contact the division office at ext. 5200.

Business Division

Ext. 4600

Ext. 5200

John Heneise, Dean Rich Patterson, Associate Dean

The Business Division is composed of six educational departments, three economic and workforce development grants and one service area. The educational departments are: Accounting and Management, Business Administration (Paralegal Studies, Marketing, Sales, Real Estate and Economics), Computer Information Systems (Programming, Networking and Security), Child Development, Consumer Science and Design Technologies (Family & Consumer Sciences, Fashion Merchandising & Design, Hospitality and Restaurant Management, Interior Design and Nutrition & Food), and Office Technology. For additional information, contact the division at ext. 4600.

The economic and workforce development grants are the Small Business Development Center and the Center of Excellence. For additional information, contact specific offices listed below.

The division also includes the services of the Child Development Center, with Janette Henry as the Director. For additional information, contact the Child Development Center at ext. 4920.

The division's programs and services are designed to insure high quality education delivered in up-to-date facilities, meeting job requirements and the needs of the community.

Economic Development Directors

| Center of Excellence | Audrey Reille, Ext. 6106 |
|-----------------------------------|------------------------------|
| Small Business Development Center | Daniel Morales, 626-337-2101 |

INSTRUCTIONAL DIVISIONS (continued)

Continuing Education Division

Donna Burns, Dean

The Continuing Education Division provides a range of courses serving students and community members enrolled in noncredit courses and programs. Mt. San Antonio College provides matriculation services to assist individuals seeking to enter the workforce or access further education in the following categories: Basic Skills, English as a Second Language, Programs for Adults with Disabilities, Citizenship, Parenting, and Short-term Vocational Programs. Continuing Education houses additional programs and resources as follows: The Language Learning Center, offering resources for learning new languages; the Older Adult Program promoting lifelong learning and ongoing career skills training; the Training Source that provides customized on-site courses for a variety of organizations; and the Health Careers Resource Center for health-related skills development. For additional information on courses, services, and programs offered, contact the division office at ext. 4220.

Humanities and Social Sciences Division

Ext. 4570

Ext. 4260

Dr. Stephen Runnebohm, Dean James Jenkins, Associate Dean

The Humanities and Social Sciences Division is composed of eight departments: American Language; Communication; English, Literature and Journalism; Foreign Languages; History, Art History, Geography and Political Science; Psychology and Education; Sign Language; and Sociology, Philosophy.

The division sponsors interdisciplinary and national award-winning programs and publishes the student newspaper, The Mountaineer, through journalism courses. The division also supports a nationally ranked forensics program, a successful study abroad program, and the Teacher Preparation Institute. For additional information, contact the division at ext. 4570.

Library and Learning Resources Division

Meghan Chen, Dean

Bailey Smith, Director, Learning Assistance Center

The Library and Learning Resources Division includes Learning Assistance, Library, Media Services, Tutorial Services, and Distance Learning. Housed in the Learning Technology Center, the various departments provide support services for all students at the College.

Departments

| Distance Learning | Ext. 5658 |
|---------------------|---------------------------------|
| Learning Assistance | Chair, Pat Bower, Ext. 4304 |
| Library | Chair, Emily Woolery, Ext. 4264 |
| Media Services | Ext. 4270 |
| Tutorial Services | Ext. 6605 |

THE COLLEGE

| Natural Sciences Division | Ext. 4425 Technology and Health Div | vision Ext. 4750 |
|--|---|--|
| .arry L. Redinger, Dean Aatthew Judd, Interim Associate Dean | Dr. Sarah Daum, Dean Jemma Blake-Judd, Associate D | |
| he Natural Sciences Division provides a wide variety of diverse educational op vithin its six departments: Agricultural Sciences; Biological Sciences; Chemistry, Astronomy; Mathematics and Computer Science; and Physics and Engineering. | Earth Sciences and vocational programs in the areas variety of Associate in Science De | on provides 31 certificates and 31 degrees in occupational and of technology, public services, and health care. The programs offer a grees and certificates leading to job placement, transfer, and updating |
| Agricultural Sciences provides numerous vocational programs leading to an ass certificate including programs in Animal Science, Equipment Technology, Regist echnology, and Ornamental Horticulture. Biological Sciences offers a variety of ind non-majors, including specific programs in Anatomy and Physiology, Anthr Aicrobiology, Botany, and Zoology. Chemistry offers a full range of lower-divisio ntroductory, general, and organic chemistry. Earth Sciences and Astronomy pro peology, oceanography, meteorology and astronomy. Mathematics and Comput- tourses for students at all levels of computational ability, from pre-algebra to c equations. Physics and Engineering offers several course sequences in classical n Physical Science. The Engineering program provides a solid foundation of low hose students preparing to transfer to a baccalaureate-level institution. For ad contact the division at ext. 4425. | Verter degree of ered Veterinary courses for both majors opology, Histotechnology, on courses, including vide course work in er Sciences provide alculus and differential physics, as well as courses for differential physics, as well as courses forMaintenance, Architecture and En Welding. The Public Services Prog Sciences, and Alcohol and Drug Co Health, Radiologic Technology, Res program provides quality prepara driven by industry needs, and ma includes The Regional Health Occi additional information, contact the Department | nology include Aeronautics, Air Conditioning and Refrigeration, Aircraft agineering Design, Electronics Technology, Travel, Water Technology, and arams include Fire Technology, Administration of Justice, Correctional ounseling. Health Care Programs include Medical Services, Mental spiratory Technology, and Nursing. The Associate Degree Nursing ation for students seeking a career as a Registered Nurse. Programs are any are governed by State accrediting boards. In addition, the division upations Resource Center (RHORC) and the RHORC at ext. 6101. For he division at ext. 4750. |
| Physical Education Division | Ext. 4630 | |
| Deborah Blackmore, Dean/Athletic Director oeseph Jennum, Director/Physical Education and Wellness Programs | | |
| At. SAC's Physical Education Division has been a leader among community collo Dur commitment to Physical Education, Athletics and Dance is exhibited by our and well being of our students and community. Our comprehensive class offerin Fire and Law Testing (PAT)/Conditioning Program, Dance Productions, Athletic F Special Events demonstrate this commitment. | dedication to the health ngs, certificate programs, | |
| At. SAC is home to one the nation's largest and most successful community col or men and women. The Championship Winning Athletic Program offers 22 in ntegral part of the College's overall educational offerings. Mt. SAC Student/Ath and in the classroom. Our "WIN" academic support program provides testing, tu ervices for our student/athletes and serves as the "model" academic support p community colleges. | dividual sports and is an letes excel on the field toring and counseling | |
| At. SAC's five "world famous" annual athletic special events—the Mt. SAC Rela nvitational, Footlocker Western Regional Cross Country Championship, LA84 Fo Program and the International Pole Vault Camp—reach over 100,000 participa pectators, generating millions of dollars into the local economy. | undation Youth Days | |



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Matriculation Services:

Admissions and Registration

Assessment and Placement Orientation

Counseling/Advisement

ADMISSION AND REGISTRATION

Admissions

Admission to Mt. San Antonio College includes the filing of an application for admission by the student and the filing of transcripts from high school or college(s). It is the student's responsibility to request official transcripts from the last high school attended and any college(s) attended. Transcripts will be reviewed to determine eligibility for courses at Mt. SAC.

Application to the College

All inquiries regarding admission to the college should be directed to the Admissions and Records Office. Admission is granted only by filing an official application for admission using one of the following methods:

- The application for admission of credit classes can be submitted online. To access the online application, visit the Mt. SAC Admissions Website at *http://admissions.mtsac.edu* and click on the online application link at the tip of the web page.
- 2. Assistance is available in English, Spanish, Vietnamese, Chinese and Sign Language. Information is also available in alternative formats (Braille, enlarged text, e-text, etc.).

Residency Requirements (for fee purposes) Residency Guidelines

This statement is a general summary of the principal rules of residency and their exceptions and should not be construed as the actual expression of the laws used by the Mt. San Antonio College Admissions Officer for residency determination. Reference should be made to Chapter 1 (commencing with Section 68000) of Part 41 of Division 5 of the Education Code, regulations of the Board of Governors of the California Community Colleges in Chapter 1 (commencing with Section 54000) of Division 5 of Part VI of Title 5 of the California Administrative Code, and the regulations and guidelines available in the Admissions and Records Office.

Residence Classification

Each person enrolled in or applying for admission to Mt. San Antonio College will, for purposes of admission and/or tuition, be classified as a "resident," or a "non-resident".

 Resident: A"resident" is a person who is eligible to establish California residency for tuition purposes or who has resided within California for at least one year and who has established a legal residence in California prior to the residency determination date. Non-resident: A "non-resident" student is one who has not resided in the State for more than one year prior to the residency determination date and who has not established legal residence or who is not eligible to establish California residency for tuition purposes.

Criteria for Determination of Legal Residence

To determine a person's place of residence, reference is made to the following:

- 1. Every person has, in law, a residence.
- 2. Every person who is married* or 18 years of age or older, and under no legal disability to do so, may establish residence.
- 3. In determining the place of residence, the following rules are to be observed:
 - a. There can be only one residence.
 - b. A residence is the place where one remains when not called elsewhere for labor or other special or temporary purposes, and to which that person returns in seasons of repose.
 - c. A residence cannot be lost until another is gained.
 - d. The residence can be established and/or changed only by the union of act and intent.
 - e. A man or a woman may establish his or her residence. Thus, it is possible that a woman who is married to, and living with, her husband may have a residence separate from his. A woman's residence shall not be derivative from that of her husband.
 - f. The residence of the parent with whom an unmarried minor child maintains his/her place of abode is the residence of the unmarried minor child. When the minor lives with neither parent, his or her residence is that of the parent with whom he/she maintained his or her last place of abode; however, the minor may establish his or her own residence provided both parents are deceased and a legal guardian has not been appointed.
 - g. The residence of an unmarried minor who has a living parent cannot be changed by his or her own act, by the appointment of a legal guardian, or by relinquishment of a parent's right of control, unless the student qualifies for the self-supporting exception.

Burden of Proof

The burden of proof is on the student to clearly demonstrate both physical presence in California and intent to establish California residence.

Residence Classification Appeal

Any student, following a final decision on residency classification by the Admissions and Records Office, may make written appeal to the Appeals Committee of Mt. San Antonio College within 30 calendar days of notification of final decision regarding classification.

Concurrent Enrollment for K-12 Students (Special Admits)

The Special Admit program is designed for high school sophomores, juniors and seniors (10th, 11th and 12th grades) who would benefit from taking advanced scholastic or vocational work at Mt. San Antonio College. Students must meet the following criteria to participate in the Special Admit program:

- 1. Be recommended by their high school principal or counselor;
- 2. Be approved to participate by their parents/guardian;
- 3. Have a 3.0 cumulative high school grade point average or better to enroll in degree appropriate courses, or a 2.0 or better gpa for a vocational course;
- 4. Meet all course prerequisites and/or co-requisites;
- 5. Sophomores and juniors will only be allowed to enroll in a single course. Seniors may enroll in two courses.

Special Admit application packets may be obtained in the Counseling Center or online at *www.mtsac.edu/students/counseling/collegestarter.html*

Only college level courses may be taken as part of the Special Admit program. Students needing to make up a high school deficiency can apply to participate in the High School Referral Program. Please go to the Continuing Education Center in Building 30.

A parent/guardian approval form allowing the student to participate must be submitted as part of the application process. Parents must acknowledge that their student will be instructed in an adult environment and that the student will be expected to conform to all college policies.

Students who have previously enrolled and who have dropped their courses and/or have not made satisfactory progress will not be allowed to continue their participation in the Special Admit program.

Highly-gifted students enrolled in grades 9 and earlier may be considered for limited enrollment. To participate, students must meet all of the same criteria required for 10th, 11th and 12th grade Special Admit students.

All high school students will be required to attend a Special Admit orientation prior to being accepted for admission.

College credit will be earned as a result of taking courses at Mt. San Antonio College and those grades will become part of the student's permanent college record. High school credit may be possible at the discretion of the receiving high school. Please speak to your high school counselor.

^{*} A minor, married but subsequently divorced, retains the capacity to establish his or her own residence. An annulment of the marriage (a determination that in effect the marriage never took place) will require that the minor be treated like any other minor.

Evaluation of Other College Coursework

Mt. San Antonio College reserves the right to evaluate work completed in other regionally accredited colleges and universities. Transfers with acceptable grades will be granted advanced standing insofar as the work corresponds with the curriculum of this institution or the lower-division work offered in accredited colleges or universities. Each applicant should file with Admissions and Records an official transcript of their records from all colleges and universities previously attended. This material should be furnished at least two weeks prior to registration. For information regarding military credit, see Section III in this *Catalog*.

It is the student's responsibility to request the evaluation of official transcripts from other colleges. This may be accomplished by submitting a completed "Evaluation Request" form at Admissions and Records.

Students planning to use courses taken at other colleges for placement in Mt. San Antonio College courses who did not have transcripts sent to Admissions and Records must bring official copies of their transcripts at the time they register. Transcripts may also be required at the first class meeting.

Transcripts submitted for admission become the property of Mt. San Antonio College and cannot be returned to the applicant or forwarded to other institutions.

Acceptance of Domestic Coursework from Accredited Colleges and Universities in the United States

The College will accept "degree appropriate" or "baccalaureate" level courses from accredited colleges and universities in the United States. These course units will, at a minimum, be granted "elective credit" status.

To determine General Education and/or Associate Degree equivalency and for granting of unit credit, the course must be easily identifiable as the same course taught at Mt. San Antonio College by a commonly used course prefix, title, and description. To be verified, sufficient information, including prerequisite information, must be available from the accredited college/university to substantiate granting course equivalency and course credit. The College reserves the right to deny acceptance of any course for the purpose of General Education, Associate Degree graduation requirements, or subject requirements. If denied, the student may petition for an in-depth evaluation but will be required to provide official course information from the institution of record or from the college/university cataloq.

To determine "subject" requirements for an established vocational program, the course must be evaluated by a representative from the respective academic department in which the major resides. If the course is determined acceptable as a substitution for a required course in the program, the department representative will complete a "variance" form verifying this acceptance and complete the paperwork at Admissions and Records.

Articulation with High Schools, ROPs, and Adult Schools

Articulation Agreements with secondary schools (high schools, Regional Occupational Programs and Adult Education) are established annually during the fall and are valid for the current school year. Articulation is a faculty driven process with three possible methods of rewarding student achievement in the Career Technical Education courses taken at the secondary level. The three types of articulation include Project Credit, Course Equivalency and College Units of Credit.

Project Credit is the minimum level of articulation and results in a certificate to be submitted in a specified college course in lieu of a specific required project or projects. Course Equivalency recognizes the information gained from the secondary experience and allows students to use that experience to continue their career education by taking an advanced college level course. Project Credit and Course Equivalency articulation will not result in units of credit at the college.

College Units of Credit is the most common form of articulation between the college and secondary schools. Students participating in these agreements must meet an exam requirement as stated in California Code of Regulations, Title 5. Students that successfully meet the exam requirement and supply the correct paperwork will be awarded a grade and units of credit. The credits will appear with a notation of "by exam" on a Mt. SAC transcript in the semester closest to the completion of their secondary course.

Articulation with secondary programs is a time sensitive process. Secondary students must complete the required paperwork and pass required exams at the completion of their secondary course. If a course sequence is required at the secondary level, the student must request the units at the completion of the course sequence. The required paperwork must be submitted by the instructor of record on the Articulation Agreement within two months of course or sequence completion. Students may not seek college units retroactively. Required paperwork includes:

- 2+2 Articulation Equivalency Form
- High School Transcript
- ROP/Adult Education Certificate of Completion

Forms are available from participating high school instructors. Secondary instructors submit all required paperwork to the Tech Prep office at Mt. San Antonio College. Articulation forms will be accepted from authorized secondary instructors only.

College credit issued by ROP and/or Adult Education centers will be accepted if the issuing programs is accredited by the Accrediting Commission for Community and Junior Colleges (ACCJC) or the Senior College Commission, under the auspices of the Western Association of Schools and Colleges (WASC).

For more information on articulations with high schools, ROPs and adult schools, please contact the Tech Prep/Articulation Office, Bldg. 11A, at (909) 594-5611, ext. 5252.

Admission of International Students

Mt. San Antonio College encourages applications from students holding or attempting to obtain the F-1 Visa. The following items are required from international applicants:

- Mt. SAC Application for Admission
- International (F-1 Visa) Student Application
- Application processing fee of \$50.00 (U.S.)
- Confidential Financial support documents
- A "paper based" TOEFL score of at least 450, "computer based" TOEFL score of at least 133, or an Internet-based score of at least 45.
- Transcripts from high school and/or college attended
- TB (tuberculosis) test
- Proof of health insurance (prior to registration)

The following items are required for current F-1 Visa students transferring into Mt. SAC:

- Copy of I-20
- Copy of I-94
- Transfer form

The deadlines to apply for the 2009-10 school year are as follows:

- Summer 2009 First Monday of April
- Fall 2009 First Monday of June
- Winter 2010 First Monday of November
- Spring 2010 First Monday of December

F-1 Visa students can obtain all application materials from our College Website at **www.mtsac.edu.** From *The Mt. Sac home page*, click on *"Apply or Register,"* click on *"Forms and Publications,"* then click on *"Application for International Students."* TOEFL scores, admissions application (both college and International Student Application), and all supporting materials must be received on or before the term deadlines listed above. Students will be required to take the Assessment of Written English (AWE) when they arrive at Mt. San Antonio College. Applications received after the deadline will be considered for the following semester. The application fee must accompany the admission application.

Matriculation

Registration

Registration for classes is done online via the web at *http://my.mtsac.edu*. Students who enrolled in the previous semester or session preceding the enrollment term are eligible to register for classes. Students may check their date and time to register at *http://my.mtsac.edu*.

Schedule of Classes

The Mt. SAC *Schedule of Classes*, which indicates intended course offerings and teaching assignments for both credit, noncredit and continuing education courses, is published each semester. The credit course offerings are found in the front of the schedule. The noncredit and continuing education course listing appears towards the back of the book and also includes the smaller noncredit/continuing education registration card. The combined *Schedule of Classes* is available on campus, on the Mt. SAC website *(www.mtsac.edu)* and at community libraries. The College reserves the right to cancel, reschedule, equalize, or combine classes and to change professors where such action is deemed necessary. Because of facilities limitations, any class section or program will be closed as soon as enrollment has reached the maximum designated for that class or program.

Enrollment Fees and Expenses

Students are charged an enrollment fee, a Health Services Fee, and for some classes Materials Fees for each semester at Mt. San Antonio College. These fees are subject to change. An optional Student Activities Fee is available for purchase for the Fall and Spring semesters. Please consult the latest *Schedule of Classes* for current fees and other related information. Students must purchase their own textbooks and supplies. Expenses for books and supplies for full-time students may average \$300 to \$400 per semester depending upon the program of study selected.

Students wishing to park in the regular student parking lots are required to have a valid Student Parking Permit. The permit may be purchased at the time of registration online or at the Bursar's Office located in Building 9A.

Refund of Fees

To be eligible for a refund, students must drop their classes by the refund deadline for that class. The deadline can be found on their Student Schedule/Bill. If the student's class has been officially dropped, or cancelled by the College, the student will receive a refund check in the mail in approximately 45 days. Refund checks will be made payable to the student and sent to the mailing address on your student account. Please see the current Schedule of Classes for more refund information.

Military Refund: In the case of students who are members of an active or reserve military unit and who receive orders compelling a withdrawal from courses, the College shall, upon petition by the affected student, refund the parking fee, health fee, materials fee, Student Activities Fee, entire enrollment fee and non-resident tuition fee unless academic credit is awarded.

Cancelled Classes

Classes may be cancelled at the discretion of the College. Students enrolled in such a class will be permitted to enroll in other open classes.

Students who have a class or classes cancelled by the College because of low enrollment and have paid their fees for those classes will receive a refund check in the mail in approximately 45 days.

Student Obligations

Mt. San Antonio College will withhold grades, transcripts, diplomas, and registration privileges, or any combination thereof, from any student or former student who fails to pay a proper financial obligation due the College (e.g., returned check, unpaid enrollment fees, unpaid loan, equipment breakage, unpaid library fine, etc.). Any item or items withheld shall be released when the student satisfactorily meets the financial obligation.

There is a processing fee of \$25 for returned checks or stop payment of checks.

Students having disciplinary obligations with the Student Life Office will not be allowed to transact College business until the obligation is met.

ASSESSMENT AND PLACEMENT

Most students attending Mt. San Antonio College are required to participate in assessment. The assessment and placement process has been established to enable all students an opportunity to achieve probable success in their course work. In addition, the process allows the faculty to instruct their courses at an appropriate level with the knowledge that students will be reasonably prepared.

Placement Tests

Placement tests are required for appropriate course placement. Students take placement exams for math, English and reading courses. Advanced level math placement exams should be taken when applicable to the student's academic background and intended program of study.

English Placement

The College utilizes the Assessment of Written English (AWE) to evaluate students' writing skills. Most students are required to have their English competency assessed prior to registration. Based on the assessment, students are placed in one of the following categories:

- A. Eligible for English classes. Based on assessment results, students will be eligible for either ENGL 1A, 68, 67, or LERN 81.
- B. Eligible for AMLA writing courses (designed for students who are not fluent in the English language). Students may enroll in AMLA writing courses and continue enrolling in AMLA writing courses until they are eligible for ENGL 67 or ENGL 68.

C. Eligible for ESL (English as Second Language) classes. Students may enroll in ESL adult education courses each semester until eligible for AMLA courses; then enroll in AMLA courses each semester until they are eligible for ENGL 67 or English 68.

Students in any of the categories listed above may enroll in other courses for which they are eligible. Students with limited English skills are not prohibited from enrolling in vocational courses.

Math Placement

The College utilizes a selection of assessment instruments to place students into math courses. Students take one of the math placement exams commensurate with their most recent, successful completion of Pre-Algebra, Algebra, Intermediate Algebra and Pre-Calculus.

Reading Placement

The College utilizes the Degrees of Reading Power (DRP) and COMPASS/ESL reading tests to assess student reading skills. Based on the results of the reading test, the student will be advised to take an appropriate reading course.

Retest Policy

Students may repeat a test once every three months. Under certain extenuating circumstances and with approval of the Director of Assessment and Matriculation, a test may be repeated prior to the three-month limit.

Placement Test and Eligibility Time Limits

Placement test scores are valid for two years from the date the test was taken. Eligibility based on test placement is not valid after the two-year expiration period. Eligibility based on previous coursework does not expire.

Test Scores and Placement from Other Colleges

Math and reading test scores will be accepted from other colleges if that college uses the same test as Mt. SAC. Test scores from other college English tests are not accepted. Mt. SAC does not accept placement granted at other colleges.

Appeals Process

Students may appeal their English and/or math placement if they can demonstrate alternate proof of course equivalency or competency. If extenuating circumstances exist that may affect course placement, students may seek consultation in the appropriate division office. Students should be prepared to present documentation such as high school or college transcripts, additional test results, or work experience.

ABILITY TO BENEFIT

Students applying for financial aid who do not have a high school diploma, GED, a certificate of proficiency or its equivalent must demonstrate that they have the ability to benefit from an educational program at Mt. San Antonio College prior to receiving Title IV financial aid. To meet this requirement, you must have taken and passed the federally approved Ability to Benefit test (Wonderlic) that is conducted at the Assessment Center or satisfactorily completed 6 credit hours of coursework applicable toward a degree or certificate offered at Mt. SAC. For further information regarding the Ability to Benefit regulations, contact the Financial Aid Office.

EXEMPTION FROM ASSESSMENT

Students are exempt from Assessment if they:

- 1. enroll in non-credit or community services classes only;
- select and enroll in a general interest class which does not have prerequisites;
- 3. verify English or math eligibility based on course work at Mt. San Antonio College or other regionally accredited institutions;
- 4. verify other test scores accepted by Mt. San Antonio College;
- 5. possess an Associate or higher degree from an accredited institution.

ORIENTATION – CREDIT STUDENTS

Orientation is required for all new students who are enrolling in Mt. San Antonio College. This includes students who may want to take one course, or those who are transferring from another college. The only exception is for students who have a degree from an accredited college/university.

Orientation includes information regarding college programs, services, procedures, student responsibilities, and other related information. Students will have the opportunity to meet with a counselor or an advisor to develop a first semester educational plan.

The College has determined the importance of an orientation to college as a factor in success. Prospective students are urged to make ar appointment for orientation immediately after filing an application and taking the necessary placement tests.

COUNSELING/ADVISEMENT

Counseling and advising services are provided to matriculated students who are in need of additional assistance regarding course selection, major selection, and transfer information and planning. Students are encouraged to meet with a counselor during their first semester of enrollment to develop an Educational Plan. The Educational Plan lists the courses needed to complete a specific major, as well as identifying graduation and/or transfer requirements in general education.

Students who are undecided about their major and/or career and educational goals, should make an appointment with Counseling and Advising Services to meet with a counselor. Career counseling services are available to students at no cost, to assist students in making the most appropriate choices about their future.

EXEMPTION FROM ORIENTATION AND COUNSELING/ADVISEMENT

Students are exempt from Orientation and Counseling/Advisement if they:

- 1. enroll in non-credit or community services classes only;
- 2. possess an Associate or higher degree from an accredited institution;
- 3. attain 60 units or more from an accredited institution;
- 4. select and enroll in a general interest class only. All students must meet course prerequisites.

PRE-COLLEGIATE BASIC SKILLS

Courses designated "Pre-Collegiate" develop basic skills in reading, writing, and mathematics. They will neither count toward graduation from Mt. San Antonio College, nor transfer to a baccalaureate institution.

PREREQUISITES, COREQUISITES, AND ADVISORIES

Faculty at Mt. SAC have established prerequisites, corequisites and advisories for courses. If a student does not meet the prerequisite or corequisite requirements, the student will be blocked from enrolling in those courses. Transcripts and grade report cards from other colleges used to determine whether pre or corequisites have been meet must be evaluated prior to registration.

Prerequisite

Prerequisites to a course are those courses which must have been taken previously as preparation for the course. To enroll in a class that has a prerequisite, the required preparation must have been completed prior to enrolling in the course. In some instances, **English and math prerequisites** may be met by attaining eligibility through assessment. All **course prerequisites** listed must be completed with a grade of "C" or better, unless otherwise stated.

Corequisite

To enroll in a course that has a corequisite, the corequisite course must be taken concurrently. In some instances, a corequisite may have been taken previously.

Advisory

An advisory to a course is preparation which is highly recommended by faculty teaching the course. Although students may enroll in a course if they do not possess the advisory skills, they are encouraged to abide by an advisory whenever possible.

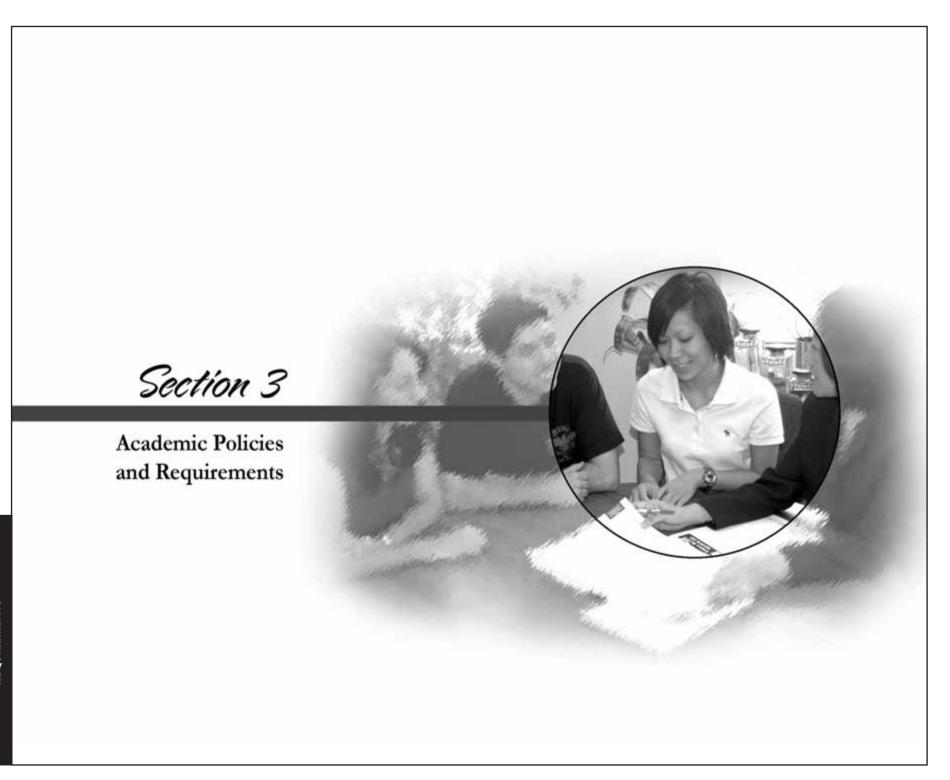
CHALLENGING PREREQUISITES

If a student believes that any of the following conditions exist with regard to an existing course prerequisite or corequisite, the student may obtain a Petition to Challenge form from the Assessment Center in the Student Services Center.

- The prerequisite or corequisite has not been established in accordance with the College's process for establishing prerequisites and corequisites;
- The prerequisite or corequisite is in violation of State Title 5 regulations;
- The prerequisite or corequisite is either unlawfully discriminatory or is being applied in an unlawfully discriminatory manner;
- The student has the knowledge or ability to succeed in the course or program despite not meeting the prerequisite or corequisite;
- The student will be subject to undue delay in attaining the goal of his or her educational plan because the prerequisite or corequisite course has not been made reasonably available; or
- Such other grounds for challenge as may be established by the district governing board.

The student must provide appropriate documentation when filing a challenge with the Director of Assessment and Matriculation.

Documentation may include, but is not limited to, high school or college transcripts, additional test results, work experience, or an oncampus writing sample. Prior enrollment in the course does not exempt a student from the current prerequisite of that course.



ACADEMIC FREEDOM

It is the policy of Mt. San Antonio College to maintain and encourage freedom for its faculty, within the law, of inquiry, teaching and research, and the pursuit of knowledge. In the excercise of this right, the professor may discuss his/her subject or area of competence in the classroom, as well as other relevant matters, including controversial materials, so long as he/she distinguishes between personal opinions and what is contemporarily regarded as factual information by leading academicians in the discipline being discussed.

The professor shall use no material in any teaching assignment nor make any speech in order to incite students or others to unlawful acts or to create a clear and present danger to the students and/or the College and/or the community. Professors may not use the classroom to promote a particular religious belief (see also Board Policy BP 4030, and Administrative Policy AP 4030).

ATTENDANCE AND ENROLLMENT

Attendance

Students are expected to attend all class meetings. It is the students' responsibility to know the attendance and absence policies of their professors.

Professors will take attendance at all class meetings. It is the responsibility of each professor to inform his/her classes of the attendance and absence policies at the beginning of each semester.

It is the student's responsibility to officially drop a class whenever <u>he or she determines that he or she can no longer attend the class.</u> Failure to drop a class officially may result in a failing grade and/or a financial obligation to the college.

Instructors may drop students from their class rolls through the last day of the tenth week of instruction of a regular semester for excessive absence as defined by the instructor.

Students will be granted College-authorized absences for participation in the following activities:

- 1. Player participation in inter-collegiate athletics and activities.
- 2. Class-planned field trips.
- 3. Area and State student government conferences.

4. Class-planned and sponsored speech, art, drama, and music programs. **NOTE:** To establish an official College-authorized absence, the professor must submit the students' names to the Student Life Office.

Auditing Courses

Students may not audit courses at Mt. San Antonio College. All students must be officially enrolled in a course in order to attend that course.

Dropping Courses and Withdrawing from the College

For 16-week classes, students who drop a class, withdraw from College, or are dropped from a class by the professor during the first three (3) weeks of a regular semester will receive no mark(s) or notation(s) on their permanent record.

Students who drop a class, withdraw from College, or are dropped by the professor between the first day of the fourth week and the last day of the tenth week of instruction during a regular semester will receive a mark of "W" withdrawal on their permanent record.

Professors may not drop students from class, and students may not drop class(es) or withdraw from College after the last day of the tenth week in a regular semester. All students enrolled after the tenth week shall receive an academic grade (A, B, C, D, F, P, NP) or an incomplete mark for the course.

In short-term courses, students who withdraw or are dropped from class during the first 30% of the course will receive no notation on their permanent record. Students may drop short-term courses only through 60% of the course.

A "W" withdrawal mark shall not be assigned to any student enrolled after the last day to drop except in the case of an approved petition because of extenuating circumstances. A "W" withdrawal remains a permanent part of a student's academic record.

Student Unit Limits

Without petitioning, students may enroll in up to 18 units each semester and up to seven units each summer and winter session. Students who have completed a minimum of 15 college units in a given semester with a grade point average of at least 3.0 and have a minimum cumulative grade point average of at least 3.0 may petition for permission to enroll in units above the maximum.

Students may be required to see a counselor as part of the petition process. Petitions are available in the Counseling Office, located on the upper level of the Student Services Center.

Repeatable Courses

Certain courses may be taken more than once for credit. If the course is designated as repeatable, the course may be repeated only for the number of times allowable. In some cases, a group of courses may carry a collective limitation on the number of allowed repetitions for that entire group/cluster of courses (for example, when a similar educational activity is offered in beginning and advanced course levels.) To determine whether a course is repeatable, refer to Section 10, Course Descriptions, in this *Catalog*.

Repeating Courses Previously Passed

State Regulations do not allow students to repeat non-repeatable courses previously passed with satisfactory grades of "A," "B," "C," "Credit" or "Pass." Students with extenuating circumstances may file a Petition for Exceptional Action in the Admissions Office. Students who are allowed to repeat courses based on this provision <u>will not earn additional units or grade points toward improving or changing the previous grade earned in the class or toward changing the overall grade point average.</u>

Petitions for Exceptional Action

Student *Petitions for Exceptional Action* forms are available from the Counseling Office and Admissions and Records Office in the Student Services Center. Students may complete these forms and submit them to Admissions and Records. Subsequent action on a petition will be taken either by the appropriate administrator or the Board of Appeals.

Limitations on Repeating Courses

Beginning with the Fall 2009 semester, students who have recorded a substandard grade of either "D,""F,""No Credit" or "No Pass" will only be allowed to repeat the same course two times, for a total maximum enrollment of three times. The student's permanent academic record will be annotated such that all course work that has been taken and forgiven or repeated will remain legible, insuring a true and complete academic history. Unit credit is only allowed once when repeating a D grade.

Withdrawals without a mark of "W" are allowed during the first 3 weeks of a 16-week class in a semester or within the first 20 percent of a short-term course. Students shall be allowed a maximum of three withdrawals for a given course where a mark of "W" is posted for all three withdrawals. In cases in which the student's grade and/or withdrawal was the result of an extenuating circumstance, students may file a petition to repeat a class an additional time (whether the prior enrollment was due to a substandard grade or a withdrawal.) Extenuating circumstances are verified accidents, illnesses or other circumstances beyond the control of the student. When course repetition is approved pursuant to this provision, the previous grade and credit earned (if any) shall be disregarded in computing the student's grade point average each time the course is repeated. Participation in an intervention program may be required.

Definitions

<u>Primary Term:</u> A primary term is either the Fall or Spring semester. In contrast, both Winter and Summer intersessions are not considered to be primary terms

Continuing Student:

- A continuing student is one who enrolls in at least one credit course and receives a grade, including a W in any term during the academic year.
- A continuing student retains rights to follow graduation and/or certificate requirements for the year they entered or any catalog thereafter, as long as the student maintains continuous enrollment.

Academic Policies and Requirements

Catalog Rights

This term is used to define the specific set of general education and other graduation requirements, as established in the catalog for a specific year, which the student must satisfy to qualify for a degree, certificate, etc.

Students may choose to qualify for graduation (general education and major) under the requirements in effect at either:

- 1. the time they entered the college, or
- they may use any catalog thereafter, as long as the student maintains continuous enrollment. Continuous enrollment is defined as attendance during every primary term (Fall and Spring) after initial enrollment at Mt. San Antonio College.

Continuous Residence

A student will retain rights to follow Catalog requirements for the year they entered Mt. San Antonio College if, during every primary term after initial enrollment at Mt. SAC, he/she:

- 1. is enrolled in any credit class at Mt. SAC beyond the first four weeks; or
- 2. completes any units in a credit class at another accredited postsecondary institution; <u>or</u>
- receives a waiver in advance or approval of a petition for exceptional action because of extenuating circumstances.

CREDITS AND GRADES

Definition of a Unit of Credit

The standard "unit" represents one hour in class recitation and two hours of outside preparation per week or its equivalent for one semester. By this definition, "unit" is synonymous with "semester lecture hour." In laboratory work and certain activity courses such as physical education, choir, drafting, etc., a greater number of in class hours per week is required for each unit of credit. In summer sessions, one unit of credit represents three hours of lecture per week.

Classification of Students

Students at Mt. San Antonio College are classified as follows:

- Full-time enrolled in 12 or more units in a fall or spring semester, or four or more units during a six-week summer or winter session.
- Part-time enrolled in less than 12 units during the fall or spring semester or less than 4 units during a six-week session or less than nine units during a nine-week summer or winter session.
- Freshman a student who has completed less than 30 units of credit.
- Sophomore a student who has completed 30 units of credit or more.

| GRADING SCALE | | | |
|--|---|--|--|
| Definition | Grade Point Value | | |
| Excellent | 4 | | |
| Good | 3 | | |
| Satisfactory | 2 | | |
| Passing (less than satisfactory) | 1 | | |
| Failing | 0 | | |
| Passing (at least equivalent to a "C' awarded are not counted in determ student's grade point average). | 5 | | |
| Not Passing (Equivalent to a "D" or "F" grade. No units awarded, and units are not counted in determining grade point average. No-Credit grades will be considered in probation and dismissal procedures.) | | | |
| | Definition Excellent Good Satisfactory Passing (<i>less than satisfactory</i>) Failing Passing (at least equivalent to a "C" awarded are not counted in determ student's grade point average). Not Passing (Equivalent to a "D" or No units awarded,and units are not determining grade point average. N grades will be considered in probat | | |

Grading System

Scholastic grades showing the academic achievement of students are issued at the end of each semester. Any student enrolled as of the first day of the fourth week in a full semester course for any semester shall receive one of the marks listed below on his/her permanent records.

Incomplete

A student may file a petition for an incomplete or the instructor may initiate the petition on behalf of the student who is currently passing the class under the following circumstances: verifiable illness or emergency or verifiable work conflict. Incompletes may only be issued for requirements missed commencing the fourteenth (14) week of a regular semester class or after 85% of a short-term or summer session or winter intersession class. Re-enrollment in the same course for purposes of making up the incomplete is prohibited. The petition is subject to the approval of the instructor. If the petition is granted, the student must complete all outstanding course requirements (stipulated on the Petition to Request Incomplete form) within one year, or the incomplete will be come a letter grade assigned by the instructor.

IP — **In Progress:** The "IP" symbol shall be used to denote that the class extends beyond the normal end of an academic term. It indicates that work is "in progress," but that assignment of a substantive grade must await its completion. The "IP" symbol shall remain on the student's permanent record in order to satisfy enrollment documentation. The appropriate evaluative grade and unit credit shall be assigned and appear on the student's record for the term in which the course is completed.

RD — **Report Delayed:** The "RD" symbol may be assigned only by the Admissions and Records Office. It is to be used when there is a delay in reporting the grade of a student due to circumstances beyond the control of the student. It is a temporary notation to be replaced by a permanent symbol as soon as possible. "RD" shall not be used in calculating grade point averages.

W — Withdrawal: Withdrawal from a class or classes shall be authorized through the last day of the 10th week of instruction of a regular semesterlength class. No notation ("W" or other) shall be made on the academic record of the student who withdraws during the first three weeks of a regular semester-length class. Withdrawal between the first day of the 4th week and the last day of the 10th week of instruction shall be recorded as a "W" on the student's record. The "W" shall not be used in calculating grade point averages, but excessive "W's" shall be used as factors in probation and dismissal procedures. Withdrawal from short term classes of less than semester length, but greater than six weeks, is authorized for a period of time through 61% of the course, and a mark of "W" shall be made on the student's academic record. Students are allowed no more than two "W" grades in a class. After earning two "W" grades in a class, to repeat a class, the student must petition using the process described under "Limitations on Repeating Courses." No notation shall be made on the academic record of a student who withdraws from a short term class of less than semester length, but greater than six weeks, provided the student withdraws no later than the end of the first 30% of the course.

MW — Military Withdrawal: The "MW," military withdrawal, mark shall be assigned only for students who are members of an active or reserve military unit, and who receive orders compelling a withdrawal from courses. Upon verification of such order, this symbol may be assigned at any time after the period established by the governing board during which no notation is made for withdrawals. The "MW" shall not be counted in determining registration priority, progress probation, and dismissal calculations. "In order to retain catalog rights, a student must re-apply for admission within one semester of completion of active duty." A "W" previously incurred commencing January 1, 1990, and which meets the definition of "MW" may be changed to "MW."

Final Examinations

A final examination shall be administered in all classes in compliance with the Final Exam Schedule prepared each semester. If a student is unable to attend a scheduled final examination, he/she must contact his/her instructor to make other arrangements. A student who does not take a final examination and who does not qualify for an "Incomplete" (see Grading-Incomplete), shall be assigned the grade "F" or "Zero" for the examination, and this grade shall be averaged in determining the final course grade. When a grade of "Incomplete" has been given, a copy of the final examination must be filed in the appropriate division office at the close of the semester.

Academic Policies and Requirements

Early Examinations

If a student must leave school prior to the scheduled final examinations week, he/she may take early examinations with the approval of his/her instructor. In no case may a student be released earlier than two weeks before the scheduled date of his/her final examination.

Pass/No Pass Grades

Some courses offered at Mt. San Antonio College are available to students on two different grading options: letter grade (A, B, C, D, F) or Pass/No Pass (Pass = A, B, or C; NP = D, F). A few classes are offered for Pass/No Pass only. These courses are designed to encourage students to explore areas outside their major field of study in order to broaden and enrich their collegiate experience, and to afford an opportunity for departments to offer courses in which there is diminished emphasis on grades. <u>The Pass/No Pass</u> grading option is no longer available for General Education courses.

In courses offering the grading option, students are automatically registered on a letter grade basis at the time of registration. If a change is desired, the student must declare his/her intent to be graded on a Pass/No Pass basis at the Admissions and Records Office no later than the last day of the fourth week of instruction in a full semester class. The grading option may not be changed at a later date. Students enrolled in short-term courses of less than semester length, but greater than six weeks, must determine their grading option no later than the end of the first 30% of the course or 30% of the required hours of instruction listed in the description for an open-entry/open-exit course. In any short-term course of less than six weeks, students must determine their grading option.

Credit toward graduation by using Pass/No Pass classes is limited to a maximum of 16 units. Courses taken for Pass/No Pass are not counted in calculating grade point average, nor in determining eligibility for the Dean's List, but such courses are considered in probation and dismissal procedures.

Students are cautioned that upon transfer to baccalaureate institutions, "NP" grades typically are considered to be "F" grades.

Credit by Examination

The general philosophy of Mt. San Antonio College is that the interaction which takes place between the student and professor is of critical importance to the learning process. However, quality instruction places a premium on meeting individual student needs. Therefore, Mt. San Antonio College provides for Credit by Examination enabling the student to accelerate his/her educational program by providing opportunity to obtain credit in those fields in which he/she has already achieved proficiency independently or by informal means.

Pursuant to Section 55753 of Title 5 of the California Administrative Code, students at Mt. San Antonio College may apply for Credit by Examination and such unit credit may be granted subject to the following rules and regulations:

| COLLEGE CREDIT FOR ADVANCED PLACEMENT (AP) TESTS | | | | |
|--|--------------------------------|----------------------|---|--|
| Exam | CSU GE Units | CSU Units | IGETC Units | UC Units |
| Art History | 3 semester (Area C1 or C2) | 6 semester | 3 semester (Area 3A or 3B) | 8 quarter / 5.3 semester |
| Art (Studio) | N/A | 3 semester | N/A | 8 quarter / 5.3 semester |
| Biology | 4 semester (Area B2 and B3) | 6 semester | 4 semester (Area 5B with lab) | 8 quarter / 5.3 semester |
| Calculus AB | 3 semester (Area B4) | 3 semester* | 3 semester (Area 2A) | 4 quarter / 2.7 semester** |
| Calculus BC | 3 semester (Area B4) | 6 semester* | 3 semester (Area 2A) | 8 quarter / 5.3 semester** |
| | | | | xam may be used toward transfer uarter/5.3 semester units for both |
| Chemistry | 4 semester (Area B1 and B3) | 6 semester | 4 semester (Area 5A with lab) | 8 quarter / 5.3 semester |
| Chinese Language & Culture | 3 semester (Area C2) | 6 semester | 3 semester (Area 3B and 6A) | 8 quarter / 5.3 semester |
| Computer Science A | N/A | 3 semester^ | N/A | 2 quarter / 1.3 semester^^ |
| Computer Science AB | N/A | 6 semester^ | N/A | 4 quarter / 2.7 semester^^ |
| | | | | ximum one exam toward transfer uarter/2.7 semester units for both |
| Economics — Macroeconomics | 3 semester (Area D2) | 3 semester | 3 semester (Area 4B) | 4 quarter / 2.7 semester |
| Economics — Microeconomics | 3 semester (Area D2) | 3 semester | 3 semester (Area 4B) | 4 quarter / 2.7 semester |
| English — Language & Composition | 3 semester (Area A2) | 6 semester | 3 semester (Area 1A) | 8 quarter / 5.3 semester@ |
| English — Literature & Composition | 6 semester (Area B2 and C2) | 6 semester | 3 semester (Area 1A or 3B) | 8 quarter / 5.3 semester@ |
| | | | @8 quarter/5.3 s | emester units maximum for both |
| Environmental Science | 4 semester | 4 semester | 3 semester (Area 5A with lab) | 4 quarter / 2.7 semester |
| French Language | 3 semester (Area C2) | 6 semester | 3 semester (Area 3B and 6A) | 8 quarter / 5.3 semester |
| French Literature | 3 semester (Area C2) | 6 semester | 3 semester (Area 3B and 6A) | 8 quarter / 5.3 semester |
| German Language | 3 semester (Area C2) | 6 semester | 3 semester (Area 3B and 6A) | 8 quarter / 5.3 semester |
| Government & Politics — Comparative | 3 semester (Area D8) | 3 semester | 3 semester (Area 4H) | 4 quarter / 2.7 semester |
| Government & Politics — U.S. | 3 semester (Area D8 and US 2)+ | 3 semester | 3 semester (Area 4H) | 4 quarter / 2.7 semester |
| | +Does not fulfill | AHI California Gover | nment requirement. Student can satisfy t | he AHI requirement after transfer. |
| History — European | 3 semester (Area C2 or D6) | 6 semester | 3 semester (Area 3B or 4F) | 8 quarter / 5.3 semester |
| History — U.S. | 3 semester (Area C2 or D6) | 6 semester | 3 semester (Area 3B or 4F) | 8 quarter / 5.3 semester |
| History — World | 3 semester (Area C2 or D6) | 6 semester | 3 semester (Area 3B or 4F) | 8 quarter / 5.3 semester |
| Human Geography | 3 semester (Area D5) | 3 semester | 3 semester (Area 4E) | 4 quarter / 2.7 semester |
| Italian Language & Culture | 3 semester (Area C2) | 6 semester | 3 semester (Area 3B and 6A) | 8 quarter / 5.3 semester |
| Japanese Language & Culture | 3 semester (Area C2) | 6 semester | 3 semester (Area 3B and 6A) | 8 quarter / 5.3 semester |
| Latin — Vergil | 3 semester (Area C2) | 3 semester | 3 semester (Area 3B and 6A) | 4 quarter / 2.7 semester |
| Latin — Literature | 3 semester (Area C2) | 6 semester | 3 semester (Area 3B and 6A) | 4 quarter / 2.7 semester |
| Music Theory | 3 semester (Area C1) | 6 semester | N/A | 8 quarter / 5.3 semester |
| Physics B | 4 semester (Area B1 and B3) | 6 semester# | 4 semester (Area 5A with lab) | 8 quarter / 5.3 semester## |
| Physics C — Mechanics | 4 semester (Area B1 and B3) | 4 semester# | 3 semester (Area 5A with lab) | 4 quarter / 2.7 semester## |
| Physics C — Magnetism | 4 semester (Area B1 and B3) | 4 semester# | 3 semester (Area 5A with lab) | 4 quarter / 2.7 semester ^{##} |
| | | #M | aximum 4 semester units toward GE and ##Maximum 8 qu | l 6 semester units toward transfer uarter/5.3 semester units for both |
| Psychology | 3 semester (Area D9) | 3 semester | 3 semester (Area 4I) | 4 quarter / 2.7 semester |
| Spanish Language | 3 semester (Area C2) | 6 semester | 3 semester (Area 3B and 6A) | 8 quarter / 5.3 semester |
| Spanish Literature | 3 semester (Area C2) | 6 semester | 3 semester (Area 3B and 6A) | 8 quarter / 5.3 semester |
| Statistics | 3 semester (Area B4) | 3 semester | 3 semester (Area 2) | 4 quarter / 2.7 semester |

INTERNATIONAL BACCALAUREATE CREDIT FOR GENERAL EDUCATION REQUIREMENTS FOR THE ASSOCIATE DEGREE IB Examination Number of Units Awarded to Mt. SAC General Education Biology 5 semester units toward Area B2 Business Management NA

| Business Management | NA |
|----------------------------------|--|
| Chemistry | 5 semester units toward Area B1 |
| Classical Languages | 5 semester units toward Area C2 |
| Computer Science | NA |
| Dance | 5 semester units toward Area C1 |
| Design Technology | NA |
| Economics | 5 semester units toward Area D2 |
| Film | 5 semester units toward Area C2 |
| Geography | 5 semester units toward Area D2 |
| History | |
| History of Islamic World | |
| Language A1 | |
| English | 5 semester units toward Area A1 |
| French | 5 semester units toward Area C2 |
| Language A2/B | 5 semester units toward C2 |
| Mathematics | 5 semester units toward Math Proficiency |
| Music | 5 semester units toward Area C1 |
| Philosophy | 5 semester units toward Area C2 |
| Social and Cultural Anthropology | 5 semester units toward Area D2 |
| Theatre Arts | 5 semester units toward Area C1 |
| Visual Arts | 5 semester units toward Area C1 |
| | |

Rules and Regulations

- Credit by Examination will be granted only for those courses which have been so designated by the departments.
- Any grade received for Credit by Examination will be entered on the student's permanent record with a notation of "Credit by Comprehensive Exam."
- 3. A student may petition for Credit by Examination provided:
 - a. The student has been registered at Mt. San Antonio College.
 - b. The student has not already received credit nor is currently enrolled beyond six weeks in the same course or in a more advanced course (except for Advanced Placement Course Credit).
 - c. The student has at least a 2.0 grade point average. This includes transfer/new students.
- 4. The student may obtain the petition for Credit by Examination from the Division Office.
- 5. The department will establish written guidelines by which the eligibility of a student to take such an examination is determined.

- 6. The Department will assign a grade depending on the results of the examination and submit the form "Petition for Credit by Examination" to Admissions and Records.
- 7. The student may not use Credit by Examination to satisfy the residency requirement for the degree.

A list of courses for Credit by Examination is available at each Division Office, the Instruction Office, or through Counseling and Advising Services.

Advanced Placement Examinations in CSU General Education – Breadth Certification

Advanced Placement examinations may be incorporated into certification of completion of CSU General Education—Breadth requirements by any participating institution. Students must have scored 3, 4, or 5 on an Advanced Placement examination listed below to receive the credit indicated. All CSU campuses will accept the minimum units shown below toward fulfillment of the designated General Education—Breadth area if the examination is included in a full or subject-area certification; individual CSU campuses may choose to accept more units than those specified below towards completion of General Education–Breadth requirements. The CSU campus to which the student is transferring determines the total number of units awarded for successful completion of an Advanced Placement examination and the applicability of the examination to other graduation requirements. See the table above for specific AP Subjects.

International Baccalaureate Credit for Mt. SAC General Education Requirements for the Associate Degree

Students completing all or portions of the International Baccalaureate (IB) program at their high school may petition to utilize the results of their IB examinations to meet Mt SAC general education requirements in the areas identified below. Only IB certificate examinations with scores of 5, 6 or 7 on will be honored.

Students who have both a qualifying Advanced Placement (AP) test score (3 or above) and a qualifying IB certificate exam score (5 or above) in the same examination area, or who have completed a college level course for credit, will only have the first completion counted for credit.

Both UC and CSU stipulate that IB students who complete an IB diploma are eligible to receive 30 units of credit towards graduation. These are unspecified units (electives) and do not meet specific general education requirements at the university. Mt. SAC will not honor such requests by diploma students. Only individual IB exams will be eligible to receive academic credit.

Credit for Extra Institutional Learning Philosophical Basis

This policy of granting credit for extra-institutional learning is provided for students under special conditions in recognition of learning that has been attained outside the sponsorship of legally authorized and accredited post-secondary institutions.

General Policy Statement

Credit for extra-institutional learning will be awarded to those students who have attained competency of subject matter through experiences outside of the sponsorship of legally authorized and accredited post-secondary institutions.

The College will accept the recommendations of the American Council on Education in reference to the guide to the Evaluation of Educational Experience Experiences in the Armed Forces and the National Guide to Credit Recommendation for Non-collegiate courses; the College Entrance Examination board in reference to its recommendation of Advanced Placement Examinations, and credit recommendations from other similar nationally recognized academic institutions, including Mt. San Antonio College's policy for comprehensive examinations.

Academic Policies and Requirements

Policy Regulations

- Of the 60 units required for the Associate Degree, at least twentyfour (24) units must be earned in courses that contribute to the grade point average.
- Extra-institutional learning credit will normally not be evaluated unless the credit is necessary for graduation.
- Credit for non-collegiate courses will be awarded only for work applicable toward the Associate Degree. Credit may be granted for upper division courses provided the student has earned less than 60 units at the time the upper division work is attempted.
- To petition for extra-institutional learning credit, a student must have at least a 2.0 grade point average, not be on probation, and be in good standing.
- The permanent academic record shall be annotated in such a manner to insure that a true and complete history of extrainstitutional learning credit has been granted.
- In cases where a student is seeking a degree/certificate from the College all standard graduation and residency requirements apply and must be met by completing a minimum of 12 units earned from Mt.SAC courses.

Credit for Military Training

Mt. San Antonio College will grant four units of Baccalaureate level elective credits for military experience without regard to the field of service. Additional credit may be allowed for specific programs of training and credits earned through the United States Armed Forces Institute. The College will follow the recommendations made by the American Council on Education.

HONORS

Academic Honors

President's List

The President's List is an honors list comprised of those students who have achieved a 3.50 or better grade point average in a minimum of twelve (12) letter-graded Associate Degree applicable units per semester.

Dean's List

The Dean's List is an honors list comprised of those students who have achieved between a 3.0 to 3.49 grade point average in a minimum of twelve (12) letter-graded Associate Degree applicable units per semester.

Graduation Honors

Graduation honors are awarded as follows:

Academic Distinction

The "Academic Distinction Honor" designation is placed on the transcript and degree of the graduate who has achieved an overall grade point average (GPA) of 4.00.

Scholastic Honor

The "Scholastic Honor" designation is placed on the transcript of the graduate who has achieved an overall grade point average (GPA) of 3.90 through 3.99.

With Honors

The "With Honors" designation is placed on the transcripts and degree of the graduate who has achieved an overall grade point average (GPA) of 3.75 through 3.89.

Honors Program

Mt. San Antonio College offers an Honors Program for students who have demonstrated academic excellence. Honors courses are specially designed sections of transferable general education courses and, with a few exceptions, are part of the IGETC requirement list.

Completion of the Honors Program makes a student eligible for guaranteed priority admission to the following universities: UCLA, UC Irvine, UC Riverside, UC Santa Cruz, Chapman University, Pepperdine University, Pitzer College, Pomona College, and Occidental College. In addition to an enhanced curriculum for motivated students, Honors Program students receive library privileges at UC Irvine, UCLA, and UC Riverside; and an Honors Certificate and pin upon honors certification.

Entrance Requirements

- High School Students Eligibility for ENGL 1A; 1,000 composite SAT2 score; 3.5 GPA
- Mt. San Antonio College Students Nine transferable units; Eligibility for ENGL 1A; 3.5 GPA (Waivers can be obtained through the Honors Program Office for highly motivated students with a competitive GPA and an in-progress grade report and professor recommendation.)

Requirements for "Honors Scholar" Designation

- Complete six [6] honors courses (18 units) with a minimum 3.2 GPA for honors certification
- Maintain a 3.2 GPA

For additional information about Mt. SAC's Honors Program, contact the Vice President of Instruction at Ext. 5414 or the Honors Program Office at Ext. 4665.

Alpha Gamma Sigma

Mt. San Antonio College sponsors the Zeta Chapter of Alpha Gamma Sigma, the statewide scholastic honorary organization for California Community Colleges. There are three categories of membership eligibility. Only degree appropriate courses/units (those that grant credit for an Associate or Bachelor's degree) may be used to establish eligibility for membership (Exception: Temporary Membership).

- 1. **Temporary:** (First college semester only) Must hold a California Scholastic Federation (CSF) Life Membership OR be a high school graduate with a cumulative grade point average of 3.5 or higher. This membership is intended as an introduction to Alpha Gamma Sigma and is not to be considered as an initial membership.
- 2. Initial: (First time membership) Must have completed 12 degreeappropriate units in a maximum of three (3) semesters with a degree appropriate cumulative grade point average of 3.0 or higher.
- 3. **Continuing:** (Previous membership) Must have achieved for the previous semester a degree appropriate grade point average of 3.0 or higher OR have maintained a degree appropriate cumulative grade point average of 3.0 or higher.

Part-time students are eligible for membership. Membership requires campus and community involvement (service hours).

Applications are available in Student Life, Building 9C-1. For further information and review of academic eligibility, students should consult an Alpha Gamma Sigma Officer or an Alpha Gamma Sigma Advisor. Scholarships provided by Zeta Chapter and the State Alpha Gamma Sigma Organization are available to actively involved members. Some baccalaureate granting institutions provide scholarship assistance which is limited to Alpha Gamma Sigma members. For details, consult with an Alpha Gamma Sigma Advisor.

Permanent membership in Alpha Gamma Sigma is an honorary lifetime AGS title for students who have completed 60 degree appropriate units; a minimum of 30 of the total 60 units must have been completed at Mt. SAC. A permanent membership application must be submitted by the graduation petition deadline. To apply students must: a) have a cumulative G.P.A of 3.25 or higher for 60 completed degree appropriate units and, b) complete a minimum of two semesters as an active or inactive member. Only permanent members receive recognition at graduation.

Phi Theta Kappa

Mt. SAC sponsors the Alpha Omega Alpha Chapter of Phi Theta Kappa, an international scholastic honorary organization for America's two-year colleges, including Canada, Germany, Puerto Rico, Panama and American Samoa. Eligibility for membership is established for the following:

- 1. Full and part-time students who have completed 12 appropriate degree units with a 3.5 grade point average at an accredited institution.
- 2. Students who have maintained a 3.5 grade point average while a member.

For further information and review of academic eligibility, students should consult a Counselor or a Phi Theta Kappa advisor. Currently, some 70 U.S. colleges and universities offer scholarships to members. There are several advantages which accompany this honor, including recognition at graduation. Applications are available at the Honors Program office in 26A-1680.

Academic Policies and Requirements

ACADEMIC STANDARDS

Probation and Dismissal

There are two forms of probation: Academic Probation and Progress Probation.

Academic Probation

A student is placed on Academic Probation when the student has:

- 1. attempted at least 12 units, and
- 2. earned a cumulative grade point average below 2.00.

Progress Probation

A student is placed on Progress Probation when the student has:

- 1. Enrolled in a total of at least 12 units, and
- 2. the cumulative percentage of all units in which the student has enrolled for which entries of "W", "I" and "NP" are recorded reaches or exceeds fifty percent.

Upon recording of Academic or Progress Probation a student shall have their registration restricted, be required to participate in a prescribed counseling intervention and be limited to enroll in a maximum of 12 units in subsequent semesters, and 4 units in a winter or spring term, while on probation.

Clearing Probation

- 1. Academic Probation The Student shall be cleared from Academic Probation when the student's cumulative grade point average is 2.0 or higher.
- 2. Progress Probation The student shall be cleared from Progress Probation when the student's cumulative percentage of units with "W", "I" and "NP" drops below fifty percent.

Probation and Dismissal Status

- 1. First Semester Probation
 - a. Academic occurs at the end of that first semester in which the student has attempted at least 12 units and has earned a cumulative grade point average below 2.0, or
 - b. Progress the cumulative percentage of all units in which the student has enrolled for which entries of "W", "I" and "NP" are recorded reaches or exceeds fifty percent.
- 2. Second semester Probation
 - a. Academic occurs when the student in their consecutive semester continues to have a cumulative grade point average below 2.0, or
 - b. Progress continues to have a cumulative percentage of all units enrolled recorded as "W", "I" and "NP" at fifty percent or higher.

3. Dismissal occurs after three consecutive semesters of Academic or Progress Probation. *The student shall be dismissed for at least one semester*. If the student has enrolled in the subsequent semester before the Dismissal status has been determined through the posting of the previous semester's grades, the student may be dropped from all classes.

For the purposes of this section, semesters shall be considered consecutive on the basis of the student's enrollment, so long as the break in the student's enrollment does not equal two primary terms or more.

Appeal of Dismissal

A student who is subject to dismissal may request an appeal of dismissal through the Counseling Department. If approved the student shall be required to participate in a prescribed counseling intervention and complete a contract, which shall include the number of units in which the student shall enroll. If the student chooses not to make the request, or the request is denied, the student shall be dismissed for at least one semester.

Reinstatement after Dismissal

A dismissed student may request reinstatement *through the Counseling Center* after an interval of one semester. The reinstated student shall be required to participate in a prescribed counseling intervention and complete a contract for reinstatement, which shall include the number of units in which the student shall enroll.

A reinstated student shall remain on a probationary, reinstated status until clearance of probation. A reinstated student shall also remain on contract until clearance of probation. Failure to comply with the terms and conditions of the contracts may result in subsequent dismissal.

RECORDS

Definition of Educational Records

Educational records consist of those files maintained by the following offices: Admissions and Records, Counseling, Assessment, Financial Aid, and those files maintained for individual students by departments.

Academic Renewal

The Academic Renewal Policy is provided for students in specific circumstances where previously recorded, substandard academic performance is not reflective of the student's present demonstrated ability. Academic renewal applies only to substandard coursework completed at Mt. SAC. Students with substandard coursework at other colleges/universities need to contact those institutions to see if they are eligible for academic renewal under the provisions of academic renewal of said institution.

- A. A maximum of twenty-four units may be alleviated.
- B. Since completion of the work to be disregarded, the student's cumulative grade point average for all units completed at the time of adjustment must be at least 3.0 for 18 semester units, 2.5 for 24 semester units, or 2.0 for 30 units. The cumulative grade point average may include course- work completed at Mt. San Antonio College and/or other accredited colleges or universities. Courses used to qualify for Academic Renewal which were completed at another college or university must be verified by official college transcripts.
- C. A time period of at least two years must have elapsed since the end of the term of substandard work to be disregarded.
- D. Academic renewal will apply only to substandard grades: D, F, and NC.
- E. The permanent academic record shall be annotated in such a manner that all work remains legible, insuring a true and complete academic history.
- F. Mt. San Antonio College does not guarantee that academic renewal will be honored by institutions outside of the District. This determination will be made by the transfer institution.
- G. Students requesting academic renewal must file a petition in the Admissions and Records Office. Students should consult with a counselor prior to filing this petition.

Transcripts

Official transcripts of work completed at Mt. San Antonio College may be obtained by submitting a written request to Admissions and Records located on the lower level of the Student Services Center. The first two requests for transcripts are free, subsequent requests are \$2.00 each. Free unofficial/ student copies of transcripts may be obtained from campus kiosks or from the Advising Center located on the upper level of the Student Services Center or online at *http://my.mtsac.edu*.

Challenge of Educational Records

- Any student may file a written request with the Records Officer of the District (Dean, Enrollment Management) to remove information recorded in the student's records which is alleged to be: 1) inaccurate; 2) an unsubstantiated personal conclusion or inference; 3) a conclusion or inference outside of the observer's area of competence; or 4) not based on the personal observation of the named person with the time and place of the observation noted.
- 2. If the student is not satisfied with the determination made by the Dean, Enrollment Management, the student may utilize the existing college student grievance process (p. 259).

Section 4

STUDENT SERVICES

Mt. San Antonio College provides a wide range of support services which are essential for success to assist a diverse student population in achieving their educational, career, personal and social goals.

Admissions and Records Student Services Center, Ext. 4415

Admissions and Records, located on the lower level of the Student Services Center, provides a variety of services to students. It is usually the first office prospective students visit, and the last office students visit before transferring or graduating. The following are some of the services provided:

- All students must submit an application for admission in order to attend Mt. San Antonio College. The admissions application generates a Permit to Register and establishes a historical student record for each student. Also, transcripts from high school and other colleges must be submitted for prerequisite eligibility checks.
- 2. All registration is done online via the web at *my.mtsac.edu*. Registration instructions can be found in the latest *Schedule of Classes* or online at *my.mtsac.edu*.
- 3. Other services provided by Admissions and Records include maintaining student demographic information such as name, address and Mt.SAC student identification numbers, maintaining student academic history, issuing I-20's for International Students, processing Petitions for Exceptional Action, processing transcript and enrollment verification requests, processing graduation and certificate petitions and distributing diplomas and certificates. Admissions and Records is the official custodian of student records and maintains all permanent roll sheets and grade books received from faculty.
- 4. The Admissions and Records Office also provides the Student Services Kiosks located in the Student Services Building. These kiosks provide unofficial transcripts, final grades, and copies of the Permit to Register. All services available at the kiosk are also available at my.mtsac.edu. To use this service, students must have their Mt. SAC Student Identification number and Personal Identification Number (PIN).

Assessment Center Student Services Center, Ext. 4265

The Assessment Center administers the College's placement and career assessment program. Services offered are as follows:

- 1. Placement testing (English, Math, and Reading) measures students' readiness for appropriate course placement.
- 2. Career Assessments measure student interests, abilities, work values, and experience to help students with career planning.

To make an appointment for testing or for further information, call or visit the Assessment Center, located on the lower level of the Student Services Center.

The Bridge Program, Ext. 5392

The Bridge program is a learning community designed to increase students' academic and personal success through the structuring of a personalized learning environment.

Admission to the program is based on academic need. Students participating in Bridge are enrolled in linked classes that are taught in a cooperative environment between instructors. In this group setting students have an opportunity to learn about being successful college students and how to utilize college services. In addition, students are supported by Bridge Program staff and counselors, financial aid advisors, as well as by transfer and advising specialists.

The Bridge Program is the right choice for students who find themselves undecided on career choices, who have apprehensions about the transition to college, and who would like to make new friends. Bridge students share particular educational goals, common interests, and similar backgrounds.

As part of the Bridge Program, students can choose to be part of the Summer Bridge, English Bridge, Math Bridge, ASPIRE Bridge and/or the Pre-Nursing/Health Bridge.

Bursar's Office and Photo ID, Ext. 4960

The Bursar's Office, located in Building 9A, is responsible for the collection of credit registration fees and other campus fees including parking permits, transcripts, enrollment verification and production cards. The office also processes photo ID cards and refunds for credit classes.

Career and Transfer Services Student Services Center, Ext. 4510

Career and Transfer Services helps students and graduates to secure part-time and full-time employment in order to help them continue to attend college, or to enter into a career field related to their A.S. Degree or career certificate.

Services include:

- Job referrals to employment opportunities in the community
- Internship opportunities
- Assistance with resumes and interviewing skills
- Employment acquisition skills workshops
- Job search library and printed handouts
- Job fairs and on-campus recruiting
- Internet access to recruiting sites and job boards on the web

While Mt SAC graduates may return to Career and Transfer Services for employment assistance, current students are strongly encouraged to visit Career and Transfer Services while they are still attending.

Counseling Center Student Services Center, Ext. 4380

Students can take advantage of educational planning, career exploration and decision-making, and other services offered through the Counseling Center on the second floor of Building 9B.

Counselors are available to assist students who:

- are undecided about their major or career direction;
- need information about their career and transfer options;
- are having difficulty in their courses;
- need assistance with personal problems.

It is highly recommended that students see a counselor during their first semester at Mt. SAC to develop a student educational plan.

Counselors and educational advisors can also provide:

- information on course selection and planning for degree or certificate completion;
- information about major and transfer requirements to CSU, UC and private universities;
- general information about the college.

An appointment can be scheduled by calling (909) 594-5611, ext. 4380.

Disabled Student Programs & Services (DSP&S), Student Services Center, Ext. 4290

If students have a disability which limits their ability to participate fully and equally in any College instructional program and/or activity, they are encouraged to visit Disabled Student Programs and Services. A professional will meet with them to determine the extent of their limitations and the special services and accommodations that may be provided for their needs.

To take advantage of the wide array of special programs and services we offer, written documentation of disability must be provided by a physician or appropriate professional; the disability must present a limitation to a successful education; the ability to benefit from instruction must be demonstrated; and self-management skills (*mobility, eating and using restrooms without assistance*) must be adequate, unless an attendant is utilized. We do not provide attendant service.

If students have a doctor's verification that requires them to park in zones designated as "handicapped parking," they are required to apply for a state "Disabled Person" permit and placard from the Department of Motor Vehicles, if they don't already have one.

If students have a current "Disabled Person" permit and placard or a "DP" license plate from the State of California Department of Motor Vehicles, they are not required to purchase a student parking permit. They are allowed to park in any parking space designated as

"handicapped parking," any metered space (*at no cost*), or any timelimited space (*without having to observe the time limit specified*). Students must ensure that the placard or license plate is displayed properly. DSP&S highly recommends that students visit our department to determine if there are any other services that may provide assistance while they attend Mt. San Antonio College.

Programs and services are provided for students with various disabilities. There are eligibility requirements for some of the programs offered. We invite and encourage all students to visit Disabled Student Programs and Services, located on the lower level of the Student Services Center.

CalWORKs (California Work Opportunities and Responsibility to Kids)

The CalWORKs Programs at Mt. SAC was designed to provide educational support for single or married parents who are recipients of Temporary Assistance to Needy Families (TANF) benefits. In order to receive services students must receive TANF benefits for themselves **and** their children. The CalWORKs Office assists students in meeting their Welfare to Work 32/35 hour participation requirements while achieving their personal and educational goals. A variety of support services are provided to facilitate students' achievement of their AA degree or a professional certificate.

Support services include:

- education planning
- counseling
- case management
- tutoring
- personal development workshops
- job development/placement assistance
- advocacy
- liaison between student and GAIN Services Workers and Eligibility Worker at County Office
- payment for required books and supplies
- work-study*
- childcare*

*Based upon adequate funding

For more information, visit www.mtsac.edu/students/calworks

CARE (Cooperative Agencies Resources for Education), Ext. 4392

(See Extended Opportunity Programs and Services – EOPS)

Extended Opportunity Programs and Services (EOPS), Student Services Center, Ext. 4500

Extended Opportunity Programs and Services (EOPS), located on the lower level of the Student Services Center, provides access to higher education for students with academic and financial disadvantages and the office of EOPS assists students seeking Re-Entry services as well as those who qualify for CARE. Some of the services offered are:

- Counseling
- Educational Planning
- Peer Advising
- Instructional Development and Services
- Tutoring
- Book Service Program
- Financial Assistance

To be eligible for the EOPS program, a student must:

- Be a California resident
- Be enrolled as a full-time student (12 units or more)
- Have fewer than 70 degree applicable units
- Qualify to receive a Board of Governors Enrollment Fee Waiver under Method A or B
- Be educationally disadvantaged

CARE (*Cooperative Agencies Resources for Education*) is a support program for EOPS students who are single head of household parents receiving CalWORKs — and provides additional assistance to students who are:

- Eligible for EOPS
- Enrolled in at least 12 units upon acceptance
- Currently receiving AFDC/TANF assistance, with at least one child under 14 years of age
- At least 18 years old, single head of household
- Have applied for financial aid and have a need for child care, transportation, books and supplies, and/or counseling to attend college
- Pursuing a program at Mt.SAC which will lead to a certificate, degree or transfer

Students who believe they qualify for the program should visit the EOPS Office.

Financial Aid Student Services Center, Ext. 4450

Financial aid is intended to help students who might not otherwise be able to attend college. Although the primary responsibility for meeting college costs rests with the student and his or her family, it is recognized that many families have limited resources and are unable to meet the cost of a college education. Financial aid programs have been established to provide assistance for students with documented financial need.

The College provides financial assistance in the form of grants, loans, scholarships, and part-time employment for students who meet financial aid program eligibility requirements. Student financial aid awards are contingent upon continued funding from Federal and State government agencies. Students eligible for financial aid typically receive a "package" of aid from two or more of the financial aid programs.

All students may be eligible for some form of assistance based on their financial need. The Financial Aid Office, located on the upper level of the Student Services Center building, administers aid programs for eligible applicants. Eligibility criteria for financial aid programs are subject to frequent change. Students may apply for aid by filing a Free Application for Federal Student Aid (FAFSA) form. A FAFSA worksheet is available in the Financial Aid Office for students interested in filing online at *www.fafsa.ed.gov*. For any questions or further information, contact the Financial Aid Office, **ext. 4450.**

The information reported on the FAFSA may be verified by the Financial Aid Office using a parent's and/or student's Internal Revenue Services Forms 1040, 1040A or 1040EZ. Other documents may also be requested such as a copy of the Social Security card, Alien Registration card (*if applicable*) and a Photo ID for identification purposes.

Recipients of aid from Federal and State funded programs must be students enrolled in eligible programs of study for the purpose of obtaining a degree, an approved Title IV certificate, or transfer. In addition to financial need, other eligibility requirements for most Federal and State programs include:

- 1. Having a high school diploma or equivalent. This requirement can be met by demonstrating the ability to benefit by passing a federally approved Ability to Benefit test or by completing six degree/certificate applicable units. For more information on Ability to Benefit, contact the Financial Aid Office.
- 2. Being a U.S. Citizen or eligible non-citizen.
- 3. Maintaining satisfactory progress in accordance with the standards.
- 4. Not be in default on a federal loan or grant overpayment.
- 5. Be registered with the selective service, if required.
- 6. Have a valid social security number.

To be considered for financial aid, students must complete the Free Application for Federal Student Aid (FAFSA) or the renewal application.

These applications are usually available beginning in January for the following academic year. If a student is interested in a State of California Grant, the FAFSA and a GPA verification form must be completed. The Cal Grant program deadline is March 2nd of each year. For students who miss this deadline, there is a second opportunity only for community college students to apply for Cal Grants. The deadline for this is September 2nd. Additional information and eligibility requirements are available at the Financial Aid Office.

The FAFSA is the application for the following Federal and State programs:

- Federal Perkins Loans
- Board of Governors Fee Waiver
- Federal Pell Grant
- Federal Academic Competitiveness Grant
- Federal Supplemental Educational Opportunity Grant (FSEOG)
- Federal Work-Study Program (FWS)
- Need-based scholarships
- State CAL Grants
- Chafee Grant (for Foster youth)
- Federal William D. Ford Direct Loan Program

Students who receive federal financial aid and do not attend any classes will be required to repay all of the funds they have received. Students who withdraw from all classes prior to completing more than 60% of the semester are subject to the Return of Title IV funds requirements and will have their financial aid eligibility recalculated based on the percentage of the semester completed, and will be required to repay any unearned financial aid they have received. At Mt. SAC a student's withdrawal date is determined as follows:

- 1) the date the student officially notified the Admissions Office of his or her intent to withdraw, or
- 2) the midpoint of the semester for a student who leaves without notifying the college, or
- the student's last date of attendance at a documented academicallyrelated activity, or
- 4) the date posted by the instructor indicating last day of attendance

The California Community College Board of Governors Fee Waiver program is available to qualified California residents. The enrollment fee is waived for eligible students. The student is responsible for paying the remainder of the fees assessed within seven business days of registration. There are three methods to qualify for a Board of Governors Fee Waiver: (1) Temporary Assistance for Needy Families (TANF), Supplemental Security Income (SSI), or General Relief recipient, or

(2) Household size/family income, or (3) Financial need as determined by filing the Free Application for Federal Student Aid (FAFSA). Applications for this program are available in the Financial Aid office. In addition to the three methods, there are special classifications that qualify for an enrollment fee waiver, which is subject to certification and/or documentation. Refer to the BOG Fee Waiver application for a list of these classifications.

In addition, the college administers a variety of scholarship programs. Information about the College Scholarship Program can be obtained in the Financial Aid Office.

Student Health Services Building 67B, Ext. 4400

Medical, chiropractic, personal counseling, nursing and health education services are provided. Additional services include laboratory tests, tuberculosis screening, limited prescription medication, immunizations, pregnancy testing and referrals. All credit students who are currently enrolled and attending classes are eligible. Part-time faculty are eligible for select services. Some fees may apply. Professional health services are provided primarily on an appointment basis. Same-day appointments are also available; call between 8:00 and 8:30 a.m. First aid services are provided for all student, employees and guests of the College.

International Student Programs Student Services Center, Ext. 4415

Mt. San Antonio College annually welcomes hundreds of international students on F-1 visas to pursue a higher education. International students must complete and submit additional application materials and pay non-resident fees to study at the College. Specialized counseling assistance is available. Staff in Admissions and Records are also available to assist international students.

First Year Experience, Ext. 5392

The First Year Experience program offers a unique combination of courses this fall to incoming students who aren't quite prepared for college-level math and English. First Year Experience students will receive:

- Instant enrollment in pre-college math and English classes.
 (Guaranteed enrollment granted on a first-come, first served basis.)
- Chance to earn up to 9 units of academic credit.
- Popular morning sessions.
- Easy-to-follow instruction by our superb faculty.
- Opportunity to work in teams to achieve their success.
- Expert counseling on what it takes to succeed in college and beyond.

In addition, the coursework is enriched with field trips and tutorial assistance to enhance the learning experience.

Re-Entry Services Student Services Center, Ext. 4392 (See Extended Opportunity Programs and Services – EOPS)

Veterans' Services Student Services Center, Ext. 4520

Veterans' Services, located on the upper level of the Student Services Center, provides programs for Veterans and dependents seeking educational and/or vocational training under Title 38, United States Code.

Veterans are urged to take advantage of the counseling service and educational programs offered by Mt. San Antonio College. The College cooperates with the Veterans' Administration and with the California State Bureau of Vocational Rehabilitation in helping veterans. Veterans and dependents are required to comply with Veteran Regulations Section 21.4135, 21.4235, and 21.4277, in regard to required attendance and progress that the student (*veteran or dependent*) must meet in order to receive educational benefits under Title 38, United States Code.

The Veterans' Administration requires all entering veterans to be formally evaluated for military experience to prevent future interruption of educational benefits. All prior transcripts (*College or Service*) must be received and evaluated by our Admissions and Records Office as soon as possible along with a complete and signed educational plan prior to the second semester. Students should visit the Counseling Center for assistance in completing their educational plan.

Satisfactory progress of veterans or eligible dependents is measured by the successful completion of the number of units enrolled. "W's,""NC," and "F" grades are considered punitive grades."F" grades may cause an overpayment if the veteran does not take his/her final. Please refer to Mt. San Antonio College's Probation and Dismissal Policies in this *Catalog*.

A 2.0 GPA must be maintained in order to receive an Associate Degree. Should a veteran fail to make satisfactory progress for two semesters, benefits will be terminated. The veteran will be contacted and an appointment must be made with a counselor. Upon satisfactory completion of one semester of approved courses, benefits will be reinstated.

The veteran or dependent has the responsibility to adhere to these standards of attendance and progress and to notify the Veterans' Services Office of any change in status that would affect the collecting of veteran's benefits. Additions, drops, withdrawals, and last day of attendance <u>must be reported at once</u>.

The College maintains a Veterans Service Center to assist veterans and/or dependents in all matters pertaining to veteran's benefits. Veterans and/or eligible dependents must apply each semester for their Veterans Administration educational assistance allowance through the Veteran's Service Center. Special details such as application deadlines can be found in the most current *Schedule of Classes*.

Child Development Center Building 9E, Ext. 4920

Admission Policy

Early care and education services for children from birth through 5 are provided between the hours of 6:30 a.m. and 7:00 p.m., Monday through Thursday and 6:30 a.m. until 5 p.m. on Fridays for student/parent, staff, and community parents (*community children on a space available basis only*). The Child Development Center welcomes all children regardless of sex, ethnicity, religion, or physical handicap. A child must be in good health and parents must meet eligibility requirements. A student/parent must be enrolled in 6 or more units of credit coursework in order to be accepted into the program. Day time students have priority.

State Preschool Program Half and Full Day

A State Preschool Program is available for eligible student/ parents of 3and 4-year-old children (*4-year-old children have priority*). There may be <u>a minimum daily fee for this program</u>.

General Childcare Funding

This program is available on a limited basis for eligible student/parents. There may be a <u>minimum daily fee</u> for this program depending on the family's gross monthly income.

Child Care Access Grant Funding

Parents who receive or are eligible for a Pell grant may qualify for this program funding.

Fee Program

Children not qualified or accepted into any center funded program may enroll in the Fee-based program. The fee schedule is available by contacting the Child Development Center.

Enrollment

Formal application must be made in person at the Child Development Center, Building 9E, located North of the campus bookstore (SacBookRac). Final acceptance into the program will be determined when eligibility has been decided, all paperwork has been completed, and all required fees are paid. State Law requires that an oral interview/orientation be completed.

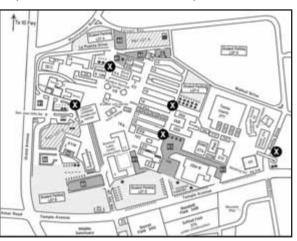
For information concerning registration dates and times, those interested should consult the latest Mt. San Antonio College *Schedule of Classes* or contact the Child Development Center at Ext. 4920.

Security Escort Service, Ext. 4233

Mt. San Antonio College offers a security escort service from 6:30 p.m. to 10:10 p.m. Monday through Thursday. Students can request an escort by calling Ext. 4233. Please refer to the Escort map below to identify the locations. Escorts can be identified by their yellow jackets and ID badges. Escorts are employed under the jurisdiction of the Public Safety Department.

Escort Location Map

Campus escort locations are indicated on the map below with a white X.



STUDENT LIFE

Student Life provides opportunities for participation in leadership programs, student government, student clubs, and other social, personal growth and development experiences.

Student Life Office/Student Center Building 9C, Ext. 4525

The Student Life Office is responsible for student involvement and leadership programs, and serves as the hub of student activities at Mt. SAC. Information regarding the LEAD (Leadership Education and Development) Program, student leadership conferences, volunteer opportunities and other involvement opportunities that are available in Student Life. This office also handles lost and found items, approves and enforces all on-campus posting, and assists in contacting students in emergency situations.

Students who are involved in co-curricular activities are encouraged to complete the Activities Transcript (available online), which complements their academic transcript and verifies the student's involvement in service and leadership activities outside of the classroom.

The Director of Student Life serves to counsel and discipline students based upon the College's Student Discipline Policy. Students are assisted in understanding their due process rights and grievance procedures. The office responds to disciplinary issues and advises faculty and staff on issues related to discipline. Students who have complaints regarding their final grades or their experiences on campus can receive assistance in the Student Life Office.

The Associated Students (AS) Government offices are located here as well as club mailboxes.

Student Life Center Building 9C, Ext. 5959

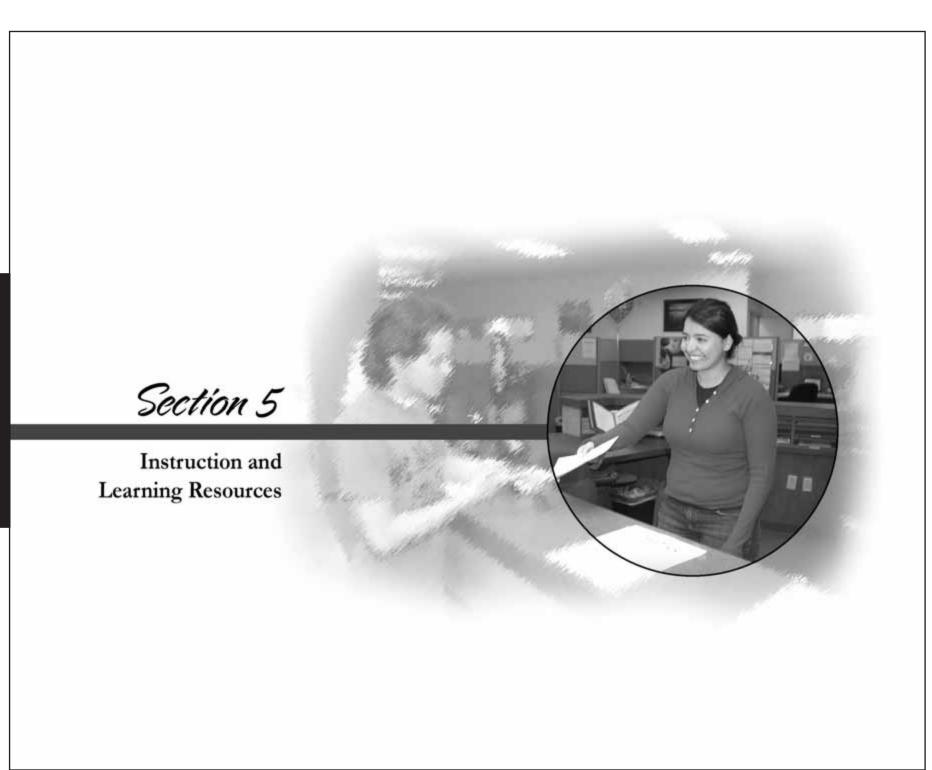
The Student Life Center provides a relaxing area to lounge, watch TV, play foosball, ping pong or a variety of board games. Students also have access to free wireless internet with their laptop. The Student Center creates a supportive and relaxing environment for students to socialize and connect with other students as well as serves as a meeting place for events, activities, clubs and student government. The Student Center is also the place to find information about off-campus housing.

Associated Students (AS) Student Government Building 9C, Ext. 4525

Student Government serves as the representative voice for students on all College issues and provides students with an opportunity to develop leadership skills. There are six executive officer positions and twenty Senate positions available to students interested in becoming involved in making a positive difference on campus. The Senate allocates monies to support various College programs, events and services. There are opportunities for students to also serve on College-wide committees to influence College policies and decision making. Associated Students meetings are held every Tuesday in the Student Center, Building 9C, Room 5 from 3:00 p.m. - 5:00 p.m. The Student Activities Fee funds many AS sponsored events and initiatives which support student clubs, programs, projects and services throughout the year. The SacBookRac sells AS discount amusement park and movie tickets.

Campus Clubs and Organizations Building 9C, Ext. 4525

There are many opportunities for students to join a variety of over 45 student clubs: cultural, social, academic, religious and recreational. Students can also start a new club through the Student Life Office. The Inter-Club Council (ICC) is comprised of one representative from each student club. ICC meets weekly on Mondays from 1:00 p.m. - 2:00 p.m. to discuss club activities and formulate procedures to better serve the campus community. Join-A-Club is a three-day event that takes place at the beginning of each semester to inform students about student club involvement opportunities. A current listing of all student clubs and organizations is available in the Student Life Office.



INSTRUCTION AND LEARNING RESOURCE

Instruction and Learning Resources

INSTRUCTION

Distance Learning Program

What is Distance Learning?

Distance Learning is a mode of education in which a portion of the instruction occurs when there is a geographical distance between the teacher and the student. Students do not need to come to the campus each week but can learn from, and communicate with, their professor using a variety of technologies.

Online Learning Classes:

Mt. San Antonio College offers many classes online via the Internet. To be successful in these courses, students must have access to a personal computer with Internet connection using the latest browser like Firefox, Netscape Navigator or Internet Explorer, and an e-mail address.

Online-Supported (Hybrid) Classes:

Hybrid classes have one or more components of the class delivered in an online mode via the Internet. Students meet with their instructor and attend on-campus meetings. (*Number of on-campus meetings to be determined by the instructor*).

For further information about the Distance Learning Program at Mt. San Antonio College, contact the Dean, Library & Learning Resources at (909) 594-5611, Ext. 5658.

Study Abroad Program

Mt. San Antonio College offers students a wide range of study abroad opportunities. The Work and Study in London Program leads participants to obtain a mini-certificate in International Business while working for up to six months in the United Kingdom. There are also a number of short-term summer study programs sponsored by the college in international locations, and our membership in the California Colleges for International Education (CCIE) permits students to participate in study abroad programs sponsored by dozens of other member community colleges throughout California. Interested students may inquire about these programs by contacting the Humanities and Social Sciences Division Office, Ext. 4570, or by visiting the International Studies Office in Building 26A, Room 120.

Work Experience Education

Occupational work experience education is supervised work activity extending classroom-based occupational learning at an on-the-job learning station (work site) relating to the student's occupational goal. This is guided by a written agreement between the College, the work site, and the student, providing the learner with adequate equipment, materials, and facilities to support the learning objectives specified within the agreement.

Student Qualifications

Students participating in Work Experience must:

- 1. Have the approval of the assigned work-experience Instructor/Coordinator.
- 2. Have an occupational or educational goal to which, in the opinion of the Instructor/Coordinator, the work-experience chosen will contribute.
- 3. Pursue a planned program of work-experience education based on written, measurable learning objectives which are directly related to the student's educational program and which, in the opinion of the Instructor/Coordinator, include new or expanded responsibilities or learning opportunities beyond those experienced during previous employment. Repetition of experiences in an ongoing job does not permit continued eligibility for the program.
- 4. <u>Meet the following condition if self-employed</u>: Identify a person who is approved by the Instructor/Coordinator to serve as a designated employer representative. This representative shall agree, in writing, to accept the following employer responsibilities:
 - a. Assist the student in identifying new or expanded on-the-job learning objectives.
 - b. Assist in the evaluation of the student's identified on-the-job learning objectives.
 - c. Validate hours worked.

Credits

For the satisfactory completion of work-experience education, the College will grant credit to a student in an amount not to exceed four (4) units per semester, with a maximum total of sixteen (16) units during the student's enrollment at the College. A minimum of 75 paid clock hours or 60 non-paid clock hours per semester of supervised work is required for each one unit of credit.

The students must be, as verified by the supervising instructor, enrolled in an occupational program directly related to the work experience assignment.

The student enrolled in the work-experience program shall assume and comply with the following responsibilities:

- Unless otherwise determined, develop measurable learning objectives approved by the Instructor/ Coordinator and work-site supervisor.
- 2. If under the age of 18, obtain the written permission of their parents.

- 3. Faithfully discharge the duties of the on-the-job assignment.
- 4. Notify the Instructor/Coordinator of any work-site problems or change in status of duties.
- 5. Try at all times to represent themselves and the College positively while at the work site.
- 6. If, prior to enrolling in work-experience education, the student is already employed full time by the work site where the work experience will take place, the student must write a report concerning a learning objective that extended beyond the duties of the regular job.

The Writing Center, Building 26B, Rooms 100, 130, 131

The Writing Center offers free services to all students. The Center provides one-on-one tutoring in writing for any course at the College; CRLA certified tutors and at least one English instructor are present at all times. In addition, the Writing Center offers a variety of workshops to help students with common writing issues, such as sentence level errors, thesis statements, essay planning and organization, and beginning college research. The Center also houses a computer lab that is available for student use to work on papers, conduct library and internet research, and develop their grammar and writing skills using self-directed educational software. Professional software is on all the computers to allow students to create presentations, and printing (regular and color), scanning and technical assistance is also available.

Math Activities Resource Center (MARC), Building 61, Room 1318

Offers free tutoring to Mt. SAC students currently enrolled in Math 50 through Math 71. Resources for checkout include videos, calculators, textbooks and solutions manuals.

Transfer Math Activities Resource Center (T-MARC), Building 61, Room 1314

The T-MARC offers free math tutoring to Mt. SAC students currently enrolled in Math 100 and above. A variety of resources for in-lab use and for take-home use are available.

Instruction and Learning Resources

Tech Ed Resource Center (TERC),

Building 28B, Room 108

The Tech Ed Resource Center offers basic math, reading and writing assistance to all students enrolled in any technology or health course within the Technology and Health Division. Students are encouraged to drop in and receive assistance with instructors and tutors or study independently. In-center check out materials include: text books, calculators, rulers and paper supplies.

Additional support services include:

- Computer use
- Study groups
- Career workshops
- Priting capability
- Assessment testing
- Individualized Education Plans
- Applied activies
- And more!

For additional information, please contact TERC at ext. 4597.

LIBRARY AND LEARNING RESOURCES

Learning Assistance Center, Building 6, South Entrance, Lower Level, Learning Technology Center

The Learning Assistance Center offers instruction for students who need to review pre-collegiate skills in math, reading, and writing. The center additionally offers free student services including tutoring, assessment of skills, and support in developing a personalized study plan.

Tutorial Services in the Learning Assistance Center provides free tutoring to all Mt. San Antonio College students, both drop-in and study group tutoring. Regularly scheduled tutors assist students with their course work in most subject areas and with their study skills techniques.

The Learning Lab computers and audio-visual equipment are available to all students in the community. The computers enable students to use the Internet for research, to communicate with instructors through e-mail, to view multimedia programs, to use word processing, to develop multimedia research projects, and to supplement classroom activities through computer-assisted instruction.

Library, Building 6, North Entrance, Upper Level, Learning Technology Center

The Library offers students, faculty, and staff a wide variety of information resources for their research needs. In addition to traditional resources such as books, journals, newspapers, videos, career guides, and college catalogs, researchers may also search numerous full-text article databases and access lists of pre-evaluated Internet web sites. Reserves allows faculty to provide continuous access to course materials free of charge to students.

Professional librarians are available days and evenings to teach library research techniques to entire classes by appointment and to individuals at the reference and information desk. The librarians at the library information desk are particularly helpful in assisting with all aspects of the research process from choosing a topic to searching for and evaluating information in print and electronic formats.

Media Services, Building 6, North Entrance, Upper Level, Learning Technology Center

Media Services has over three thousand DVDs and videos available for student viewing. Students must view the videos in the Media Services center.

COMPUTER AIDED GRAPHICS, VISUAL ARTS AND DESIGN PROGRAMS

Mt. San Antonio College offers many computer courses, majors, and certificates. Each of these has a special emphasis. The brief descriptions that follow are intended to help students select the correct computer specialization for their interests. Students planning to transfer to four-year institutions should consult the catalog of the school to which they plan to transfer for specific lower division requirements.

ARCHITECTURE & ENGINEERING DESIGN TECHNOLOGY DEPARTMENT

Architectural Technology

A.S. Degree & Certificates

<u>Prime Focus</u>: This is both a professional and vocational program that offers the full range of design and technical aspects of architecture, preparing students for employment, skill upgrade or transfer to universities. The program utilizes conventional and current computer graphics/design applications.

<u>Job Market</u>: Career opportunities include Architect, Architectural Designer, Drafter, CADD Operator, Model Builder, and Illustrator. (*See Sections 7 and 8*)

Engineering Design Technology

A.S. Degrees & Certificates

<u>Prime Focus</u>: This course of study prepares students for Computer-Aided Design and Drafting careers in technical fields, including Engineering Drafting and Design Technologies in Electro Mechanical, Civil, and Mechanical Design. An A.S. Degree is offered in Engineering Design Technology and 3 level certificates.

<u>Job Market</u>: The curriculum is designed to prepare students in computer-aided drafting and design (CADD) for careers in technical fields such as: Mechanical Design, Engineering, Engineering Technology, Manufacturing, Civil Design, and Aerospace. (*See Sections 7 and 8*)

COMMERCIAL AND ENTERTAINMENT ARTS DEPARTMENT

Advertising Design & Illustration

A.S. Degree

<u>Prime Focus</u>: Builds upon the traditional core art courses to provide students with basic skills and concepts utilized in the visual communication industries.

<u>Job Market</u>: Advertising design skills are employed any time an image or graphic design needs to be generated for commercial usage.

Aesthetics for Technology

Certificate

<u>Prime Focus</u>: Provides fundamental design skills and concepts related to art and technology-related industries.

<u>Job Market</u>: Skills acquired in this program may be utilized in a variety of visual communication industries including Art, Advertising, and Multimedia.

Animation—(Traditional, 2-D, and 3-D Digital Animation)

A.S. Degree & Certificates

<u>Prime Focus</u>: An integrated program of Traditional and Digital Animation providing skills for the entertainment arts.

<u>Job Market</u>: Supplies skills for a variety of entertainment arts careers including Traditional and Digital Animation, Motion Graphics, Gaming, Special Effects, and Web Animation.

Web Page Design

Certificate

<u>Prime Focus</u>: To provide students with a course of study that includes the use of technology and design issues in a comprehensive way.

<u>Job Market</u>: Web design skills are used any time an organization, business, or individual utilizes the internet for marketing or advertising or as a promotional tool.

Computer Graphic Design/Photography

A.S. Degree & Certificate

<u>Prime Focus</u>: Offers the full range of introductory to advanced courses in computer graphic design and photography. This program focuses on the application of the principles of visual communication design, and provides technical training in computer generated image production, manipulation, formatting and layout. The focus is on development, refinement and enhancement of visual design and technical skills.

<u>Job Market</u>: Free-Lance or Corporate Graphic Design; Marketing Photography; Advertising Design; Photojournalism; Commercial or Industrial Photography; Broadcast, Entertainment or Software Graphic Design. (*See Sections 7 and 8*)

Photography

A.S. Degree & Certificates

<u>Prime Focus</u>: Offers the full range of introductory to advanced courses. As both an art and technical craft, photography offers a dynamic set of creative challenges to both the person behind the camera and a wide range of technical specialist in related disciplines. The program focuses on development, refinement and enhancement of visual imaging.

<u>Job Market</u>: Freelance or Corporate Photographer, Studio or Location Photographer, Art/Gallery Photographer or Archivist, Photographic Developing/Printing Technician, Digital Photo Assistant, and Digital Editing Technician (*See Sections 7 and 8*)

COMPUTER PROGRAMMING, COMPUTER SECURITY, AND COMPUTER SERVICING

Mt. SAC offers many courses, certificates, and majors in the areas of computer programming, security, and servicing. Each of these has a special emphasis. The brief descriptions that follow are intended to help students select the correct computer specialization for their interests. Students planning to transfer should consult the catalog of the school to which they plan to transfer for specific lower division requirements.

- Departments offering programs in computer programming, security, and servicing are:
- Computer Information Systems Department
- Electronics and Computer Technology Department
- Mathematics, Computer Science Department

COMPUTER INFORMATION SYSTEMS DEPARTMENT

Computer Information Systems

A.S. Degrees & Certificates

<u>Prime Focus</u>: The curriculum of the CIS program covers such areas as basic computer literacy, microcomputer applications, the Internet, telecommunications, software development, computer networks, and operating systems. Software development incorporates creating graphical interfaces, client/server applications, object-oriented programming techniques, and web based applications.

Course offerings include introduction to information systems, microcomputer applications which include the Microsoft Office suite of applications, beginning and advanced relational database design in Access and Oracles, systems analysis and design, telecommunications and networking, Windows and Linux operating systems, information systems security, client / server side web programming and software development courses in: Visual Basic, Java, C++ and C#.

Mt. SAC's Regional Information Systems Security Center (RISSC) has developed new computer security courses to assist students with job-related and personal computer security demands. Courses most directly focused in this regard are CISS 11 – Practical Computer Security, CISS 13 – Principles of Information Systems Security, and CISS 15 – Operating Systems Security, along with RISSC's networking security courses.

<u>Job Market</u>: Applications Developer/Programmer, Computer Consultant, Computer Marketing/Sales Rep, Computer Network Technician, Help Desk Support Person, Web Page Designer, Information Systems Specialist, LAN Administrator, Microcomputer Trainer, Network Specialist, Office Systems Manager, On-line Publisher, Programmer, Software Engineer, Software Testing/Quality Assurance Specialist, Tech Support/ Customer Service Support, Webmaster. (*See Sections 7 and 8*)

ELECTRONICS & COMPUTER TECHNOLOGY DEPARTMENT

Electronics and Computer Engineering Technology

A.S. Degree & Certificate

<u>Prime Focus</u>: The Electronics Technology Programs prepare the student for a career as an electronic technician in manufacturing and service-based electronic and computer companies. Several computer-based courses are included in the program curricula.

<u>Job Market</u>: Career opportunities include Service Technician, Production Technician, Engineering Technician, Electronics Communication Technician, Computer Repair Technician, Networking Technician, and Assembler. (*See Sections 7 and 8*)

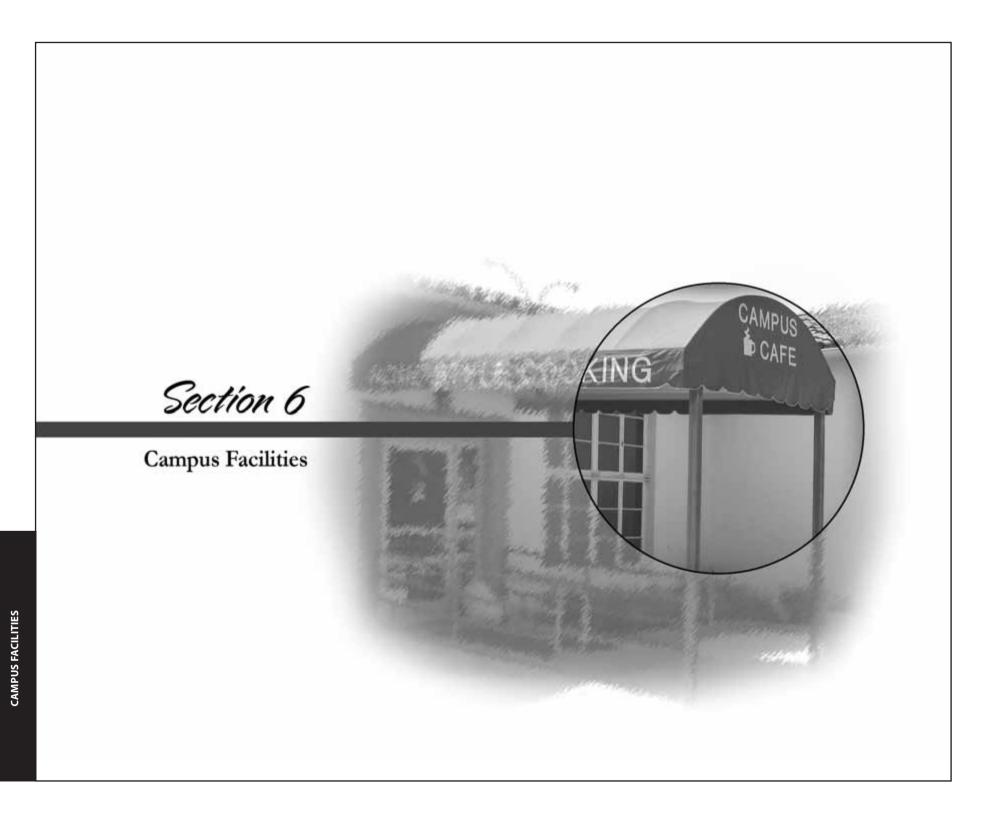
MATHEMATICS DEPARTMENT

Computer Science/Mathematics

<u>Prime Focus</u>: Offers a full range of introductory to advanced courses in Computer Science, from fundamentals to data structures and algorithms. A variety of courses in Computer Science theory, as well as programming languages such as C/C++, and Assembly prepare students for a successful career in software development and programming.

<u>Job Market</u>: Entry level positions in software development as programmers, software engineers, systems analysts, and applications software programmers. The Computer Science program is also a transfer program designed to fulfill the requirements for the first two years of a B.S. Degree in Computer Science. (*See Sections 7 and 8*)

Transfer



Campus Facilities

CAMPUS FACILITIES

Art Gallery Building 1B, Ext. 4328

The Mt. San Antonio College Art Gallery has a long history of outstanding Gallery Exhibitions highlighting prominent international and national artists as well as its outstanding faculty and students.

The Gallery offers four to five exhibitions per year. Among these are the Faculty Exhibition featuring the works of Mt. San Antonio College faculty artists and the annual Student Exhibition featuring student work from the fine arts, commercial arts, computer graphics, and photography.

For information on Gallery Exhibition dates and times, contact the Art Gallery office at (909) 594-5611, Ext. 4328.

Athletic Facilities, Ext. 4630

Hilmer Lodge Stadium, a 15,000-seat football and track facility, is located in the southeast section of the College campus. This is the home of the world famous "Mt. SAC Relays." Other athletic facilities include tennis courts, and volleyball courts, as well as a cross-country course, baseball field, softball field, soccer field, a 1,470-seat gymnasium, wrestling gym, strength-training facilities, an Olympic size swimming pool, and an Exercise Science/Wellness Center.

Auxiliary Services, Building 9D, Ext. 4470

The Auxiliary Services/Accounting Office serves students, faculty, staff, and the campus community. The following services are provided by this office:

- administration and supervision of the fiscal operations of the Associated Students
- accounting for Mt. SAC Relays, the Cross Country Invitational Meet and the AAF Youth Days
- accounting for campus clubs and trusts
- administration of the Athletic Services Fund
- accounting for the bookstore, Dining Services, and Performing Arts
- administration of contracts
- ticket sales for student events
- limited cashing of personal checks with campus ID
- ordering and distributing faculty caps and gowns
- billing for catering from Dining Services
- payroll/Human Resources for all areas of the enterprise
- processing of purchase orders and checks for all areas of the enterprise.
- preparing daily change funds for all areas of the enterprise
- processing vending machine refunds
- selling Foothill and Metro bus passes

Bookstore (SacBookRac) Building 9A, Ext. 4475

The bookstore, "SacBookRac," is located in Building 9A on the north end of the campus.

Students are encouraged to buy books early, especially if they are interested in purchasing used books (first-come/first-served). In addition to basic textbooks, general trade and paperback books, sundries, greeting cards, soft goods, and gifts are also available.

Refund Policy

Students must purchase their own textbooks and supplies. Expenses for books and supplies for full-time students average about \$300-\$350 per semester, depending upon the program of study selected.

Refunds are allowed within a certain limited time period when classes are changed and officially dropped. The refund policy is posted and available in the bookstore and printed on a bookmark given at the time of purchase.

Exercise Science/Wellness Center, Building 27A, North Door, Ext. 4625

This modern, multi-dimensional facility offers health and lifestyle screening; health, fitness, and performance physical fitness assessments; all levels of aerobic exercise (including step aerobics); circuit/strength training; and cardiorespiratory exercise.

Programs and services include: stress management, nutrition, diet/weight control, EKG/metabolic testing, athletic performance testing, individual health/fitness programming and injury prevention/ rehabilitation. Activities are offered for all age groups including a youth fitness program and courses for older adults.

The Center is open for a fee to Mt. San Antonio College students, staff, and surrounding community. The Center also provides corporate employee wellness programs on campus and at business work sites. For further information, contact the Exercise/Wellness Center at Ext. 4625.

Farm, Ext. 4540

The Farm, serving as a laboratory and as a supervised farm for students, offers an unrivaled opportunity for learning. Students interested in stock breeding, veterinary science, agri-business, horse production, field crop production, horticulture, floral design, or farm products may gain valuable experience in these fields by working with their own animals and crops while attending college. Contact the College's Campus Events office at Ext. 4794 for information on guided tours.

Food Services

The Food Services Department provides the campus community with a cafeteria, coffeehouse, fast food restaurant, and four convenience stores.

Campus Café Building 8, Ext. 4105

The Campus Café, located on the west side of campus next to the SacBookRac, features homemade, fresh cafeteria-style dining. Catering is available for small meetings up to large banquets.

Common Grounds Building 8, Ext. 4180

Common Grounds, located inside the Campus Café, features Starbucks coffees, wireless Internet access, and Wednesday evening poetry readings.

Mountie Grill Building 19C, Ext. 4624

The Mountie Grill, located on the southern portion of the campus, is a fast food restaurant providing a variety of food items.

Convenience Stores

All stores offer a variety of snack foods, cold and hot beverages, and school and test supplies.

Mountie Stop Building 9A, Ext. 4497

Express Stop Building 16A, Ext. 4142

Quick Stop Building 40, Ext. 6216

Prime Stop Building 61

Short Stop Building 66

Vending Machines Buildings 4, 7, 9C, 26, 28, 30, 40, 45

Performing Arts Center

The Mt. San Antonio College Performing Arts Center is a 66,770 square foot facility that provides instructional and performance accommodations to the three main discipline areas of Theatre, Music, and Dance. The Performing Arts Center was designed as a technological, stateof-the-art instructional facility to prepare Mt. San Antonio College students for careers in the performing arts.

The **Sophia B. Clarke Theater** is a formal 415-seat, full proscenium theater that wraps the audience around a performance. By providing a circular form and box seats at the perimeter, audience intimacy with the stage is maximized. The stage and fly tower are at a professional scale and contain equipment equal to the finest state-of-the-art theaters both regionally and internationally.

Campus Facilities

The **Music Recital Hall** provides for intimate musical performances. The Recital Hall is a 250-seat acoustical space richly articulated with reflective surfaces of maple wood and acoustical plaster; it is acoustically shaped with a 43' high ceiling. Sound reflectors above the stage further support acoustical distribution.

The **Studio Theater** adjacent to the Clarke Theater is surrounded by a scene shop, costume shop, dressing rooms, and faculty offices. The 40' x 50' x 40' theater allows for total dramatic performance flexibility. An 18' lighting grid allows light and scene flexibility. The Studio Theater is such a flexible facility that it can accommodate most any seating and scene configuration.

The **Dance Studio** is a 56' x 85' x 30' high mirrored room that allows for a grand level of physical movement. With its ceiling and upper walls painted white and bathed in natural lighting, it is an appealing and brilliant space.

Each of the three venues was designed to provide state-of-the-art acoustical quality and technical performance capabilities that put the Mt. SAC Performing Arts Center on a level with the finest theaters in the region.

Performing Arts Center Box Office Box Office Phone: (909) 468-4050 Box Office Fax: (909) 468-4031

The Mt. San Antonio College Performing Arts Center Box Office is located in the Performing Arts Center Complex (off Grand Avenue) adjacent to the Sophia B. Clarke Theater. The Box Office is open Monday - Friday from 12:00 p.m. to 5:00 p.m. and two hours prior to a scheduled performance. The current season's brochure of events is available through the Box Office.

Ticket orders are accepted over the telephone, through the mail, in person, or by fax. Mastercard, Visa, Discover, and American Express are accepted. All phone-in and mail-in orders are subject to a \$3.00 service charge.

Tickets may be exchanged for another performance of the same production up to 24 hours before the performance. If patrons are unable to attend a performance, tickets may be returned and the college will issue a receipt for a tax-deductible donation. All tickets are non-refundable.

Planetarium, Ext. 2050

The planetarium offers instructional support for college classes, as well as a wide variety of public programs on a regular basis. Information on planetarium shows is available through a 24-hour "hotline." Please call **(909) 594-5611, Ext. 3810.** Special programs are offered for elementary and secondary school groups by reservation. Contact the College's Campus Events office, Ext. 4794, for further information.

Radio Station and Cable TV Station, Ext. 4678

KSAK, 90.1 FM, is the campus radio station broadcasting to the community. The Community College Instructional Network (CCIN), a distance learning network offering twenty-six credit courses via televised lessons to forty-two community colleges, originates from the Mt. San Antonio College Broadcast Studio.

Wildlife Sanctuary, Ext. 4425

This ten-acre parcel, located on the southwestern portion of the Mt. San Antonio College campus includes a stream, lake, pond, swamp, meadow, and woodland. The sanctuary has been set aside as a place where plants and animals exist in a natural balance. Paths through the sanctuary provide access for visitors. For guided tours, contact the College's Campus Events office at Ext. 4794.

Section 7

CADEM

Programs of Study Leading to a Certificate

PROGRAMS OF STUDY LEADING TO A CERTIFICATE

Mt. San Antonio College offers two different types of certificates for credit programs of study:

- "<u>Certificates of Achievement</u>" are awarded for completion of an approved program of study meeting certain requirements of the California Community College Chancellor's Office in terms of total unit values and other criteria. The possession of such a certificate is favorably recognized by business and industry and is frequently a requirement for professional advancement. Included in the Certificates of Achievement are a wide variety of occupational certificates as well as two certificates designed to reflect completion of general education requirements for students preparing to transfer to a California State University campus [CSU General Education Breadth] or to a campus of the University of California or CSU [Intersegmental General Education Transfer Curriculum (IGETC).] The awarding of all Certificates of Achievement is noted on a student's official transcript.
- "Skills Certificates" are lower-unit certificates in various occupational areas. Although the awarding of Skills Certificates is not noted on a student's official transcript, the student may apply for and receive a documentation certificate from the college that may be of value in documenting knowledge and skills to potential employers. In many cases, entry-level Skills Certificates may be part of a ladder-track of increasing levels of preparation in an occupational area, and courses used to complete them may form a core of requirements that are augmented as students pursue higher levels of proficiency toward a Certificate of Achievement.

Note: The unit requirement for Skills Certificates is below that required for some forms of financial aid eligibility. Students should consult with the Financial Aid Office to determine whether a particular program of study qualifies for financial aid.

Students who desire help in planning for a vocation or profession, or to prepare for transfer to a fouryear institution, should seek the advice of a counselor.

Requirements for all certificates include the following:

- At least 1/2 of the credits earned toward the certificate must be completed at Mt. San Antonio College
- A grade of "C" or better must be earned in each course to be applied to the certificate
- For certificates in CSU General Education Breadth and IGETC only, students must submit an Application for Certificate form in the Admissions Office during the last semester of the certificate program

Note: Completion of a Certificate of Achievement for a CSU General Education Breadth or IGETC is not the same as CSU or IGETC Certification for transfer. For more information on certification, see pages 102-110 of this catalog.

Mt. San Antonio College also awards Certificates of Competency for certain non-credit programs of study. Information on these certificates may be found on pages 216-224.

CERTIFICATES OF ACHIEVEMENT

| CSU General Education – Breadth | Children's Program Certificate: |
|---|--|
| | General – Level III |
| | Children's Programs Certificate: |
| Accounting | |
| Accounting – Computerized | Small Business Management |
| Accounting – Financial Planning | Children's Program Certificate: Teaching |
| Accounting – Managerial | Computer and Networking |
| Administrative Assistant Level II | Technology Level I |
| Administrative Assistant Level III | Computer and Networking |
| Air Conditioning and Refrigeration | Technology Level II |
| Aircraft Powerplant Maintenance | Computer Graphics |
| Technology – Day 33 | Design/Photography 40 |
| Aircraft Powerplant Maintenance | Computer Systems Technology |
| Technology — Evening 34 | Construction Inspection41 |
| Airframe Maintenance Technology – Day | Consumer Services 41 |
| Airframe Maintenance Technology – Evening 34 | Correctional Sciences 41 |
| Alcohol/Drug Counseling35 | Educational Paraprofessional – Level II |
| Animation – Digital 2-Dimensional | Electronic Systems Technology – Level II |
| Animation – Digital 3-Dimensional | Electronics and Computer |
| Animation – Traditional 35 | Engineering Technology42 |
| Architectural Technology – Level I | Electronics Communications |
| Architectural Technology — Technology | Electronics Technology42 |
| Concentration Level II | Emergency Medical |
| Architectural Technology — Technology | Technician – Paramedic (EMT-P) |
| Concentration Level III | Engineering Design Technology Level I |
| Architectural Technology — Design | Engineering Design Technology Level II |
| Concentration Level II | Engineering Design Technology Level III |
| Architectural Technology — Design | Escrow Management 44 |
| Concentration Level III | Family Child Care 44 |
| Business: Human Resource | Fashion Design Level I |
| Management – Level II | Fashion Design Level II |
| Business: Human Resource | Fashion Merchandising – Level II |
| Management — Level III | Fire Technology |
| Business: International – Level II | Horse Ranch Management |
| Business: International – Level III | Hospitality: Catering |
| Business: Management – Level II | Hospitality: Hospitality |
| Business: Management – Level III | Management – Level II |
| Business: Retail Management – Level II | Hospitality: Restaurant |
| Business: Retail Management – Level III | Management – Level II |
| Business: Small Busines | Infant/Toddler Development |
| Management – Level II | Interior Design Level I – Merchandising |
| Business: Small Business | Interior Design Level II – Design |
| Management – Level III | Interior Design |
| Children's Program Certificate: Administration 38 | Level III – Professional Designation |
| Children's Program Certificate: | Interior Landscaping |
| General – Level II | Kitchen and Bath Design |
| General Level II | Accient and bach besign |

CERTIFICATES OF ACHIEVEMENT (continued)

| Landscape and Park Maintenance 47 Landscape Design and Construction 47 Landscape Equipment Technology 47 Landscape Irrigation 48 | Radio Broadcasting: On th Real Estate Real Estate Appraisal School Age Child – Specia |
|--|--|
| Law Enforcement 48 | Sign Language/Interpretir |
| Legal Office Specialist 48 | Sports Turf Management |
| Livestock Management 48 | Television Production |
| Manufacturing Technology 48 | Theatrical Costumer |
| Marketing Management 48 | Tree Care and Maintenance |
| Medical Office Specialist | Water Technology |
| Mental Health | Web Page Design |
| Technology — Psychiatric Technician | Welder: Licensed |
| Microcomputer Productivity Software | Welder: Automotive |
| Nursery Management 50 | Welding, Cutting & Mo |
| Park Management 50 | Welder: Gas Tungsten ARC |
| Pet Science | Welder: Semiautomatic Al |
| Photography 50 | |
| Programming in C++50 | |
| Programming in Visual BASIC50 | |
| Public Works/Landscape Management51 | |
| Radio Broadcasting: Behind the Scenes | |
| - | |

| | Radio Broadcasting: On the Air51 |
|----|--|
| 47 | Real Estate |
| 47 | Real Estate Appraisal51 |
| | School Age Child – Specialization |
| | Sign Language/Interpreting |
| | Sports Turf Management |
| | Television Production |
| | Theatrical Costumer |
| | Tree Care and Maintenance |
| 49 | Water Technology |
| | Web Page Design |
| 49 | Welder: Licensed |
| | Welder: Automotive |
| | Welding, Cutting & Modification |
| | Welder: Gas Tungsten ARC Welding |
| | Welder: Semiautomatic ARC Welding |
| | ······································ |
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| | |

| SKILLS CEI | RTIFICATES |
|---|--|
| SKILLS CEIAccounting – Bookkeeping54Accounting – Payroll54Administrative Assistant Level I54Art: Aesthetics for Technology54Athletic Trainer Aide I54Business: Human Resource54Management – Level I54Business: International – Level I54Business: Retail Management – Level I55Business: Retail Management – Level I55Business: Small Business55Management – Level I55Business Workplace Competencies55Children's Program55Certificate: General – Level I55CIS Professional Certificate55CIS Professional Certificate55CIS Professional Certificate55CIS Professional Certificate56CIS Professional Certificate in Networking56CIS Professional Certificate in Networking56CIS Professional Certificate in Networking56CIS Professional Certificate in Networking56CIS Professional Certificate in Networking57CIS Professional Certificate in Networking56CIS Professional Certificate in SOA57CIS Professional Certificate57CIS Professional Certificate57 <td>RTIFICATES Educational Paraprofessional – Level I 57 Electronic Assembly and Fabrication 57 Electronic Systems Technology – Level I 58 Emergency Medical Technician – Level I 58 Fashion Design – Computer Aided 58 Fashion Merchandising – Level I 58 Fire Administration 59 Fire Administration 59 Fire Specialist/Personal Trainer 59 Gallery Design/Operation and Art Profession 59 Gallery Design/Operation and Art Profession 59 Hospitality: Food Services 59 Hospitality: Hospitality Management – Level I Management – Level I 60 Information and Operating Systems Security 60 Information Technology 60 Introduction to Computer 61 Information Technology 61 Nutrition Program Assistant – Level I 61 Nutrition Program Assistant – Level II: 61 Nutrition Program Assistant – Level II: 61 Nutrition Program Assistant – Level II: 61 Weight Management Program Emphasis 61 <</td> | RTIFICATES Educational Paraprofessional – Level I 57 Electronic Assembly and Fabrication 57 Electronic Systems Technology – Level I 58 Emergency Medical Technician – Level I 58 Fashion Design – Computer Aided 58 Fashion Merchandising – Level I 58 Fire Administration 59 Fire Administration 59 Fire Specialist/Personal Trainer 59 Gallery Design/Operation and Art Profession 59 Gallery Design/Operation and Art Profession 59 Hospitality: Food Services 59 Hospitality: Hospitality Management – Level I Management – Level I 60 Information and Operating Systems Security 60 Information Technology 60 Introduction to Computer 61 Information Technology 61 Nutrition Program Assistant – Level I 61 Nutrition Program Assistant – Level II: 61 Nutrition Program Assistant – Level II: 61 Nutrition Program Assistant – Level II: 61 Weight Management Program Emphasis 61 < |
| Juta Entry | |
| | |

CERTIFICATES OF ACHIEVEMENT

CSU General Education Breadth

Completion of coursework for this certificate is intended for students who are planning to transfer to one of the campuses of the California State University system. In most instances, completion of courses for this certificate will assist students in transferring without the need to take additional lower-division general education courses to satisfy university general education requirements.

Note: This certificate signifies completion of the CSU general education reauirements ONLY: transfer students must aenerally also satisfy lower-division requirements in a specific major in order to be able to transfer with junior-level status. It is highly recommended that all students intending to transfer consult with Counseling and Advising Services, and that they refer to the current catalog of their specific transfer university.

For requirements, see page 104 of this catalog (the reference page is the CSU General Education pattern requirements page *in the "Transfer" section 9.)*

Intersegmental General Education Transfer Curriculum (IGETC)

Completion of coursework for this certificate is intended for students who are planning to transfer to a public 4-year university within California. Most students who follow IGETC are planning to transfer to a University of California campus, but this pattern is also accepted by the California State University system. Completion of courses for this certificate will permit students to transfer without the need to take additional lower-division general education courses to satisfy university general education requirements.

Note: This certificate signifies completion of the IGETC general education requirements ONLY; transfer students must generally also satisfy lower-division requirements in a specific major in order to be able to transfer with junior-level status. Not all UC campuses or all majors will accept the completion of this pattern as meeting the lower division breadth requirements. It is highly recommended that all students intending to transfer consult with Counseling and Advising Services, and that they refer to the current catalog of their specific transfer university.

For requirements, see page 108 of this catalog (the reference page is the IGETC requirements page in the "Transfer" section 9.)

Accounting

Accounting and Ma nagement Department Certificate T0502

The Accounting Certificate incorporates various accounting courses that prepare the student for entry-level positions and/or professional advancement in a wide variety of accounting jobs. These jobs include general accounting, cost accounting, payroll, inventory management, asset management, credit and collections, financial analysis, etc.

Requirements for the Certificate Reauired courses:

Completion of the Accountina: Financial Plannina Certificate (21 Units) or Accounting: Managerial Certificate (19 Ilnite) as follows

| Certificate | (19 Units) as follows: | | |
|-------------|--|--------|--------|
| BUSA 7 | Principles of Accounting - Financial | 5.0 | CSU,UC |
| BUSA 8 | Principles of Accounting - Managerial | 5.0 | CSU,UC |
| BUSA 21 | Cost Accounting | 4.0 | |
| BUSA 58 | <u>or</u> Federal Income Tax Law | 3.0 | |
| BUSA 75 | Using Microcomputers in Financial Accounting | 1.0 | |
| | <u>or</u> | | |
| BUSA 81 | Work Experience in Accounting | 1.0 | |
| BUSA 76 | Using Microcomputers in Managerial Accounting | 1.0 | |
| | <u>or</u> | | |
| BUSA 81 | Work Experience in Accounting | 1.0 | |
| BUSO 25 | Business Communications | 3.0 | CSU |
| Plus the fo | llowing courses: | | |
| BUSA 21 | Cost Accounting, or | 4.0 | |
| BUSA 58 | Federal Income Tax Law | 3.0 | |
| BUSA 52 | Intermediate Accounting | 3.0 | |
| BUSA 70 | Payroll and Tax Accounting | 3.0 | |
| BUSM 20 | Principles of Business | 3.0 | CSU,UC |
| | Total Units | 30.0 | - 32.0 |
| Option BUS | A 21 or BUSA 58: Take whichever | course | you |
| have not pi | reviously taken. | | |
| | | | |
| | | | |

Accounting - Computerized Accounting and Management Department Certificate L0503

The Accounting - Computerized Certificate provides the student with basic accounting skills and knowledge together with additional training in computer applications common to the accounting industry. This certificate program prepares the student for an entry-level position as a computerized accounting clerk. Common duties performed in this field are utilization of accounting software programs for posting transactions to journals/ledgers, accounts receivable, accounts payable, inventory tracking/reporting, bank reconciliation, expense reporting, and account analysis.

Requirements for the Certificate Reauired courses: Completion of the Accounting - Bookkeeping Certificate (9-10 Units) as follows: BUSA 7 Principles of Accounting 5.0 CSU,UC - Financial or BUSA 72 Bookkeeping - Accounting 5.0 BUSA 53 **Ten-Key Calculations** 2.0 or BUSA 81 Work Experience in Accounting 1.0 BUSO 5 **Business English** 3.0 or BUSO 25 3.0 CSU Business Communications Plus the following courses: BUSA 75 Using Microcomputers 1.0 in Financial Accounting or BUSA 81 Work Experience in Accounting 1.0 Using Microcomputers 1.0 BUSA 76 in Managerial Accounting or **BUSA 81** Work Experience in Accounting 1.0 4.0 CSU,UC CISB 15 Microcomputer Applications

Select BUSA CISB

Microsoft Word

Total Units

PLUS

COMP 20

| Select 3.5 | Units from: | | | r |
|------------|--------------------------------|-----|--------|----|
| BUSA 81 | Work Experience in Accounting | 1.0 | | |
| CISB 11 | Computer Information Systems | 3.5 | CSU,UC | |
| CISB 13 | Microsoft Windows | 2.0 | CSU | |
| CISB 21 | Microsoft Excel | 4.0 | | ١. |
| CISW 11 | Introduction to Internet | 4.0 | CSU | ' |
| | Technologies | | | ۱. |
| COMP 11 | Internet Research for Business | 2.0 | CSU | |

Accounting - Financial Planning Accounting and Management Department Certificate L0599

The Accounting - Financial Planning Certificate provides the student with basic accounting skills combined with specialized training in financial planning. Students completing this certificate can assist companies within the areas of budgeting, tax, and financial planning.

Requirements for the Certificate Required courses:

| L | neguneato | 415651 | | |
|---|-----------|--|------|--------|
| | BUSA 7 | Principles of Accounting - Financial | 5.0 | CSU,UC |
| | BUSA 8 | Principles of Accounting - Managerial | 5.0 | CSU,UC |
| | BUSA 58 | Federal Income Tax Law | 3.0 | |
| | BUSA 71 | Financial Planning | 3.0 | |
| | BUSA 75 | Using Microcomputers in Financial Accounting | 1.0 | |
| | | <u>or</u> | | |
| | BUSA 81 | Work Experience in Accounting | 1.0 | |
| | BUSA 76 | Using Microcomputers in Managerial Accounting | 1.0 | |
| | | <u>or</u> | | |
| | BUSA 81 | Work Experience in Accounting | 1.0 | |
| | BUSO 25 | Business Communications | 3.0 | CSU |
| | | Total Units | 21.0 | |
| | | | | |

Accounting - Managerial

Accounting and Management Department Certificate L0533

The Accounting - Managerial Accounting Certificate provides basic accounting skills and knowledge concentrating in the area of managerial accounting. This prepares the student for entry-level positions within the managerial accounting segment. Common duties performed in this field include cost analysis, budget preparation, variance analysis, expense reporting, account analysis and preparation of various internal reports to help management make decisions.

Requirements for the Certificate Required courses:

| 2.0 | CSU | BUSA 7 | Principles of Accounting - Financial | 5.0 | CSU,UC |
|------------|--------|---------|---|-----|--------|
| 4.0 4.0 | CSU | BUSA 8 | Principles of Accounting - Managerial | 5.0 | CSU,UC |
| 2.0 | CSU | BUSA 21 | Cost Accounting | 4.0 | |
| 4.0 | | BUSA 75 | Using Microcomputers in Financial Accounting | 1.0 | |
| 18.5 | - 19.5 | | ······ | | |

| BUSA 81 | <u>or</u> Work Experience in Accounting | 1.0 | |
|---|---|--------------------|----------------|
| BUSA 76 | Using Microcomputers in Managerial Accounting | 1.0 | |
| BUSA 81 | or Work Experience in Accounting | 1.0 | |
| BUSO 25 | Business Communications | | CSU |
| | Total Units | 19.0 | |
| | istrative Assistant - L | .eve | |
| | chnology Department te L0514 | | |
| The Level I | I Certificate prepares students for where office organization and tran | clerica scripti | l on skills |
| are needed | | o ci ip ci | |
| Require Required of | ments for the Certificate | | |
| | n of the Administrative Support – I work (10.5 – 11 units) as follows | | course |
| BUSO 5 | Business English | 3.0 | |
| COMP 1 | Computer Keyboarding | 4.0 | CSU |
| COMP 1A | <u>or</u> Computer Keyboarding <i>and</i> | 2.0 | CSU |
| COMP 1B | Computer Keyboarding | 2.0 | CSU |
| COMP 12 | Office Computer Applications | 4.0 | CSU,UC |
| | | | |
| CISB 15 | Microcomputer Applications | 4.0 | CSU,UC |
| CISB 15 COMP 28 | Microcomputer Applications Office Management Skills | 4.0 3.0 | CSU,UC |
| COMP 28 | | | CSU,UC |
| COMP 28 Plus the fo Level II as | Office Management Skills ollowing courses: follows: | 3.0 | |
| COMP 28 Plus the fo Level II as BUSO 25 | Office Management Skills Ilowing courses: follows: Business Communications | 3.0 3.0 | CSU,UC |
| COMP 28 Plus the fo Level II as BUSO 25 COMP 2 | Office Management Skills bllowing courses: follows: Business Communications Intermediate Computer Keyboarding | 3.0 3.0 4.0 | |
| COMP 28 Plus the fo Level II as BUSO 25 COMP 2 COMP 20 | Office Management Skills bllowing courses: follows: Business Communications Intermediate Computer Keyboarding Word for the Business Professional | 3.0 3.0 | |
| COMP 28 Plus the fo Level II as BUSO 25 COMP 2 | Office Management Skills bllowing courses: follows: Business Communications Intermediate Computer Keyboarding Word for the Business | 3.0 3.0 4.0 | |

| | istrative Assistant - I chnology Department e T0517 | Leve | | Air Co Air Cone & Weldi |
|---------------------------|--|-------------|------------|---|
| | l Certificate prepares students for positions where a variety of skills a | | | Certifica This progr |
| Required co Completion | nents for the Certificate ourses: n of the Administrative Assistant nits) as follows: | t - Level | l I course | employme and refrig manufact maintena |
| BUSO 5 | Business English | 3.0 | | Degree (tr to discuss |
| COMP 1 | Computer Keyboarding | 4.0 | CSU | |
| | <u>or</u> | | | Require |
| COMP 1A | Computer Keyboarding <u>and</u> | 2.0 | CSU | Required AIRC 10 |
| COMP 1B | Computer Keyboarding | 2.0 | CSU | AIRC 11 |
| COMP 12 | Office Computer Applications | 4.0 | CSU,UC | AINCTI |
| | <u>or</u> | | | AIRC 12 |
| CISB 15 | Microcomputer Applications | 4.0 | CSU,UC | |
| COMP 28 | Office Management Skills | 3.0 | | AIRC 20 |
| Required o | nurses: | | | AIRC 25 |
| | ourses. 1 of the Administrative Assistan | nt - Leve | el II | |
| | k (14 units) as follows: | | | AIRC 26A |
| BUSO 25 | Business Communications | 3.0 | CSU | AIRC 26B |
| COMP 2 | Intermediate Computer | 4.0 | | AIRC 30 |
| | Keyboarding | | | AIRC 31 |
| COMP 20 | Word for the Business Professional | 4.0 | | AIRC 32A |
| COMP 68 | Transcription Techniques | 3.0 | | AIRC 32B |
| Plus the fo | llowing courses: | | | AIRC 34 |
| Level III as | • | | | |
| BUSO 26 | Oral Communications for Business | 3.0 | | AIRC 37 AIRC 39 |
| BUSO 96A | Business Vocabulary | 1.5 | | |
| COMP 11 | Internet Research for Business | 2.0 | CSU | A: |
| COMP 13 | Using Web Page Software | 4.0 | CSU | Aircra |
| COMP 60 | Business Publications Using Desktop Publishing Softv | 4.0 vare | CSU | Techn Aircraft |
| COMP 150 | Basic PowerPoint <i>or</i> | 1.0 | | & Manu Certifica |
| COMP 50 | Desktop Presentations Using PowerPoint | 4.0 | CSU | This progr certified p industry. T |
| | Total Units | 43.5 | - 46.5 | powerplan program l Certificate this area c and flight valid A & I |

Air Conditioning and Refrigeration Air Conditioning, Water & Welding Technologies Certificate T0909

his program is designed to prepare the student for mployment in the broad field of air conditioning, heating, nd refrigeration. It leads to occupations in design, nanufacturing, operation, sales, distribution, installation, naintenance, and repair. Students desiring a Bachelor's egree (transfer program) should consult with an advisor o discuss transferability of courses.

Requirements for the Certificate Required courses:

| AIRC 10 | Technical Mathematics | 2.0 |
|----------|---|-------|
| | in Air Conditioning and Refrigera | ition |
| AIRC 11 | Welding for Air Conditioning and Refrigeration | 2.0 |
| AIRC 12 | Air Conditioning Codes and Standards | 3.0 |
| AIRC 20 | Refrigeration Fundamentals | 3.0 |
| AIRC 25 | Electrical Fundamentals | 4.0 |
| | for Air Conditioning and Refriger | ation |
| AIRC 26A | Heat Pump Fundamentals | 1.5 |
| AIRC 26B | Gas Heating Fundamentals | 2.0 |
| AIRC 30 | Heat Load Calculations | 3.0 |
| AIRC 31 | Commercial Electrical | 4.0 |
| | for Air Conditioning and Refriger | ation |
| AIRC 32A | Air Properties and Measurement | 1.5 |
| AIRC 32B | Air Distribution Systems | 1.5 |
| AIRC 34 | Advanced Mechanical | 4.0 |
| | Refrigeration | |
| AIRC 37 | Pneumatic Controls | 2.0 |
| AIRC 39 | Building Automation Systems | 4.0 |
| | Total Units | 37.5 |
| | | |

Aircraft Powerplant Maintenance Technology - Day

| Aircraft Maintenance Technician |
|---|
| & Manufacturing Technology |
| Certificate T0982 |
| bic program propares students to enter employer |

This program prepares students to enter employment as a certified powerplant technician in the aircraft maintenance industry. Training is given in the overhaul of various powerplants and their components. Completion of this program leads to an Associate of Science Degree or a Certificate. Excellent opportunities for employment exist in this area of training. Certain administrative, quality control, and flight personnel careers require the applicant to hold a valid A & P Certificate.

This program offers a day (full-time) or evening (part-time) program option. The only difference between the two options is the course numbering and time required to complete the program. Day program courses AIRM 65A and 65B are equivalent to evening program courses AIRM 95A, 95B, 96A, 96B, 97A, 97B, 98A, and 98B. Day program courses AIRM 66A and 66B are equivalent to evening program courses AIRM 90A, 90B, 91A, 91B, 92A, 92B, 93A, and 93B. Successful completion of this program enables students to take the FAA examination in General and Powerplant. Passing the General Exam plus the Airframe and/or Powerplant Exam provides certification as an Aircraft Maintenance Technician which is required for employment

in this field. Students desiring a Bachelor's Degree (transfer

program) should consult with an advisor to discuss

Requirements for the Certificate *Required courses:*

transferability of courses.

| AIRM 65A | Aircraft Powerplant Maintenance Technology | 13.0 | CSU |
|---|---|------------|-----|
| AIRM 65B | 57 | 13.0 | |
| AIRM 70A | Aircraft Maintenance Electricity and Electronics | 3.0 | |
| AIRM 70B | Aircraft Maintenance Electricity and Electronics | 3.0 | |
| AIRM 71 | Aviation Maintenance Science | 6.0 | |
| AIRM 72 | Aviation Materials and Processes | 1.5 | |
| AIRM 73 | Aviation Welding | 1.5 | |
| | Total Units | 41.0 | |
| Recommen | ded Electives: | | |
| AIRM 74 | Aircraft Maintenance Technology | | |
| AINW 74 | - Work Experience | | |
| AIRM 80 | | | |
| | - Work Experience Lab Studies | | |
| AIRM 80 | - Work Experience Lab Studies in Aircraft Maintenance Technolo | gy | |
| AIRM 80 | - Work Experience Lab Studies in Aircraft Maintenance Technolo Lab Studies | igy igy | |
| AIRM 80 AIRM 81 | - Work Experience Lab Studies in Aircraft Maintenance Technolo Lab Studies in Aircraft Maintenance Technolo | igy igy | |
| AIRM 80 AIRM 81 EDT 12 | - Work Experience Lab Studies in Aircraft Maintenance Technolo Lab Studies in Aircraft Maintenance Technolo Technical Engineering Drawing I | igy igy | |
| AIRM 80 AIRM 81 EDT 12 ELEC 90 | - Work Experience Lab Studies in Aircraft Maintenance Technolo Lab Studies in Aircraft Maintenance Technolo Technical Engineering Drawing II Survey of Electronics Technical Mathematics | igy igy | |

Aircraft Powerplant Maintenance Technology - Evening Aircraft Maintenance Technician & Manufacturing Technology Certificate T0952 This program prepares students to enter employment as a

certified powerplant technician in the aircraft maintenance
industry. Training is given in the overhaul of various
powerplants and their components. Completion of this
program leads to an Associate of Science Degree or a
Certificate. Excellent opportunities for employment exist in
this area of training. Certain administrative, quality control,
and flight personnel careers require the applicant to hold a
valid A & P Certificate.Rec
AIR

This program offers a day (full-time) or evening (part-time) program option. The only difference between the two options is the course numbering and time required to complete the program. Day program courses AIRM 65A and 65B are equivalent to evening program courses AIRM 95A, 95B, 96A, 96B, 97A, 97B, 98A, and 98B. Day program courses AIRM 66A and 66B are equivalent to evening program courses AIRM 90A, 90B, 91A, 91B, 92A, 92B, 93A, and 93B. Successful completion of this program enables students to take the FAA examination in General and Powerplant. Passing the General Exam plus the Airframe and/or Powerplant Exam provides certification as an Aircraft Maintenance Technician which is required for employment in this field. Students desiring a Bachelor's Degree (transfer program) should consult with an advisor to discuss transferability of courses.

Requirements for the Certificate *Required courses:*

| AIRM 70A | Aircraft Maintenance Electricity and Electronics | 3.0 |
|----------|--|-----|
| AIRM 70B | Aircraft Maintenance Electricity and Electronics | 3.0 |
| AIRM 71 | Aviation Maintenance Science | 6.0 |
| AIRM 72 | Aviation Materials and Processes | 1.5 |
| AIRM 73 | Aviation Welding | 1.5 |
| AIRM 95A | Aircraft Powerplant Maintenance Technology | 3.0 |
| AIRM 95B | Aircraft Powerplant Maintenance Technology | 3.0 |
| AIRM 96A | Aircraft Powerplant Maintenance Technology | 3.0 |
| AIRM 96B | Aircraft Powerplant Maintenance Technology | 3.0 |
| AIRM 97A | Aircraft Powerplant Maintenance Technology | 3.0 |

| AIRM 97B | Aircraft Powerplant Maintenance Technology | 3.0 |
|----------|---|------|
| AIRM 98A | Aircraft Powerplant Maintenance Technology | 3.0 |
| AIRM 98B | Aircraft Powerplant Maintenance Technology | 3.0 |
| | Total Units | 39.0 |
| Recommen | ded Electives: | |
| AIRM 74 | Aircraft Maintenance Technolo - Work Experience | gу |
| AIRM 80 | Lab Studies in Aircraft Maintenance Technology | |
| AIRM 81 | Lab Studies in Aircraft Maintenance Technology | |
| EDT 12 | Technical Engineering Drawing | g II |
| ELEC 90 | Survey of Electronics | |
| MFG 70 | Technical Mathematics - Manufacturing Applications | |
| PHYS 1 | Physics | |

Airframe Maintenance Technology - Day Aircraft Maintenance Technician & Manufacturing Technology Certificate T0991

This program prepares students to enter employment as a certified airframe technician in the aircraft maintenance industry. Training is given in the overhaul of various airframes and their components. Completion of this program leads to an Associate of Science Degree or a Certificate. Excellent opportunities for employment exist in this area of training. Certain administrative, quality control, and flight personnel careers require the applicant to hold a valid A & P Certificate.

This program offers a day (full-time) or evening (part-time) program option. The only difference between the two options is the course numbering and time required to complete the program. Day program courses AIRM 66A and 66B are equivalent to evening program courses AIRM 90A, 90B, 91A, 91B, 92A, 92B, 93A, and 93B.

Successful completion of this program enables students to take the FAA examinations in Airframe and General. Passing the General Exam plus the Airframe and/or Powerplant Exam provides certification as an Aircraft Maintenance Technician which is required for employment in this field. Students desiring a Bachelor's Degree (transfer program) should consult with an advisor to discuss transferability of courses.

| Required c | ourses: | | |
|------------|---|-------|-----|
| AIRM 66A | Airframe Maintenance Technology | 13.0 | CSU |
| AIRM 66B | Airframe Maintenance Technology | 13.0 | |
| AIRM 70A | Aircraft Maintenance Electricity and Electronics | 3.0 | |
| AIRM 70B | Aircraft Maintenance Electricity and Electronics | 3.0 | |
| AIRM 71 | Aviation Maintenance Science | 6.0 | |
| AIRM 72 | Aviation Materials and Processes | 5 1.5 | |
| AIRM 73 | Aviation Welding | 1.5 | |
| | Total Units | 41.0 | |
| Recommen | ded Electives: | | |
| AIRM 74 | Aircraft Maintenance Technology - Work Experience | / | |
| AIRM 80 | Lab Studies in Aircraft Maintenance Technology | | |
| EDT 12 | Technical Engineering Drawing I | I | |
| ELEC 90 | Survey of Electronics | | |
| MFG 70 | Technical Mathematics - Manufacturing Applications | | |
| PHYS 1 | Physics | | |
| | | | |

Requirements for the Certificate

Airframe Maintenance Technology - Evening Aircraft Maintenance Technician & Manufacturing Technology Certificate T0981

This program prepares students to enter employment as a certified airframe technician in the aircraft maintenance industry. Training is given in the overhaul of various airframes and their components. Completion of this program leads to an Associate of Science Degree or a Certificate. Excellent opportunities for employment exist in this area of training. Certain administrative, quality control, and flight personnel careers require the applicant to hold a valid A & P Certificate.

This program offers a day (full-time) or evening (part-time) program option. The only difference between the two options is the course numbering and time required to complete the program. Day program courses AIRM 66A and 66B are equivalent to evening program courses AIRM 90A, 90B, 91A, 91B, 92A, 92B, 93A, and 93B.

Successful completion of this program enables students to take the FAA examinations in Airframe and General. Passing the General Exam plus the Airframe and/or Powerplant Exam provides certification as an Aircraft Maintenance Technician which is required for employment in this field. Students desiring a Bachelor's Degree (transfer program) should consult with an advisor to discuss transferability of courses.

Requirements for the Certificate *Required courses:*

| neguneu co | urses. | |
|------------|--|------|
| AIRM 70A | Aircraft Maintenance Electricity and Electronics | 3.0 |
| AIRM 70B | Aircraft Maintenance Electricity and Electronics | 3.0 |
| AIRM 71 | Aviation Maintenance Science | 6.0 |
| AIRM 72 | Aviation Materials and Processes | 1.5 |
| AIRM 73 | Aviation Welding | 1.5 |
| AIRM 90A | Airframe Maintenance Technology | 3.0 |
| AIRM 90B | Airframe Maintenance Technology | 3.0 |
| AIRM 91A | Airframe Maintenance Technology | 3.0 |
| AIRM 91B | Airframe Maintenance Technology | 3.0 |
| AIRM 92A | Airframe Maintenance Technology | 3.0 |
| AIRM 92B | Airframe Maintenance Technology | 3.0 |
| AIRM 93A | Airframe Maintenance Technology | 3.0 |
| AIRM 93B | Airframe Maintenance Technology | 3.0 |
| | Total Units | 39.0 |

Recommended Electives:

| AIRM 74 | Aircraft Maintenance Technology - Work Experience |
|---------|--|
| AIRM 80 | Lab Studies in Aircraft |
| | Maintenance Technology |
| EDT 12 | Technical Engineering Drawing II |
| ELEC 90 | Survey of Electronics |
| MFG 70 | Technical Mathematics |
| | - Manufacturing Applications |
| PHYS 1 | Physics |

| | | | | Working Fu | nvironment: | | ANIM 119 | Portfolio | 1.5 |
|--------------|--|------------|---------|--------------|--|-------------------|-----------------------|---|-------------|
| Alcoho | l/Drug Counseling | | | - | be exposed to infectious and cont | agious disoaso | ANINI 119 | | 1.5 |
| | rvices Department | | | | out prior notification | ayious uisease, | ARTC 66 | <u>or</u> Portfolio | 3.0 |
| Certificat | | | | | • | | ANIM 120 | Script Development for Animat | |
| Upon comp | letion of the required courses with | h a grade | of | - | larly exposed to the risk of blood | | ANIM 120 | Motion Graphics With After Effe | |
| | r, a Certificate in Alcohol/Drug Stu | | e | | sed to hazardous agents, body flu | | ANIM 172 | Web Animation With Flash | 3.0 |
| awarded by | / the Technology and Health Divisi | on. | | Expos | sed to odorous chemicals and spe | cimens | ARTC 70 | Computer Graphics: Introductio | |
| Requirer | ments for the Certificate | | | Subje | ect to hazards of flammable, explo | sive gases | ARTC 74 | Computer Graphics: Web Design | |
| Required co | ore courses: | | | Subje | ect to burns and cuts | | ARTD 17A | Drawing: Life | 3.0 CSU,UC |
| AD 1 | Alcohol/Drug Dependency | 3.0 CS | J | - | act with patients having different | religious | | Total Units | 33.0 - 34.5 |
| AD 2 | Physiological Effects | 3.0 CS | U | | re, ethnicity, race, sexual orientation | | Docommon | ded Electives: | |
| | of Alcohol/Drugs | | | | nological and physical disabilities, | | | Figure in Motion | |
| AD 3 | Chemical Dependency: | 3.0 CS | J | | variety of circumstances | and under a | ANIM 107 ANIM 109 | Advanced Principles of Animati | on |
| | Intervention, Treatment and Rec | | | | | | ANIM 109 ANIM 130 | Introduction to 3-D Computer A | |
| AD 4 | Issues in Domestic Violence | 3.0 | | | lle emergency or crisis situations | | | Work Experience in New Digital | |
| AD 5 | Chemical Dependency: Prevention and Education | 1.5 CS | J | | ect to many interruptions | | ANIM 137A ANIM 148 | Demo-Reel | INEUId |
| AD 6 | Dual Diagnosis | 3.0 CS | J | | ires decisions/actions related to e | nd of life issues | ARTD 16 | Drawing: Perspective | |
| | kill courses: | | | Expos | sed to products containing latex | | ARTD 20 | Design: Two Dimensional | |
| AD 8 | Group Process and Leadership | 3.0 | | English Laı | nguage Skills: | | PHOT 10 | Beginning Photography | |
| AD 9 | Family Counseling | 3.0 | | Although p | roficiency in English is not a criteri | a for | | | |
| AD 10 | Client Record and Documentatio | | | | students are encouraged to be abl | | Animat | tion - Digital 3-Dime | nsional |
| AD 11 | Techniques of Intervention and Referral | 3.0 | | | ead English to complete classes su afety for themselves and others. | ccessfully and | | ial and Entertainment Art | |
| Required fi | eld work courses: | | | | | | The Digital | 3-D Certificate provides training i | in 3-D |
| AD 13 | Internship/Seminar | 3.5 CS | 1 | Animat | tion - Digital 2-Dime | nsional | | ncluding character modeling, lig | |
| AD 14 | Advanced Internship/Seminar | 3.5 CS | | Commer | cial and Entertainment Art | s | | nt and special effects that lead to | |
| | Auvanceu internomp/ Seminar | 5.5 (5) | 0 | Certificat | | | | lm, television and the video gam | e industry. |
| PLUS | (2) | | | | 2-D Certificate provides training f | | | ion Program offers an | |
| | (2) courses from: | 2.0.00 | | | t integrate animation with video, | | | interdisciplinary approach to pre | |
| CHLD 10 | Child Growth and Development | 3.0 (5 | J,UC | | l effects for Websites, broadcast, fi on or mobile content. | Im, | | rent and future job market dema I be given a balanced blend of art | |
| | <u>Or</u> Child Crowth and Davalanment | 2.0.00 | | 1. | | | | -based skills which are essential f | |
| CHLD 10H | Child Growth and Development - Honors | 3.0 (5 | 0,0C | | tion Program offers an | | | nimation. The program offers an | |
| | <u>or</u> | | | to meet cur | /interdisciplinary approach to pre rrent and future job market dema | nds The | | ertificates. Course content is drive | |
| SOC 1 | <u>Sociology</u> | 3.0 CS | IIIC | | ll be given a balanced blend of art | | | der to provide the student with th | |
| PSYC 1A | Introduction to Psychology | 3.0 CS | | | -based skills which are essential f | | possible pre | paration for a career in animatio | on. |
| PSYC 19 | Abnormal Psychology | 3.0 CS | | | inimation. The program offers an <i>i</i> | | Requirer | nents for the Certificate | |
| SOC 14 | Marriage and the Family | 3.0 CS | | | ertificates. Course content is drive | | Required co | | |
| SOC 15 | Child Development | 3.0 CS | | | der to provide the student with th | | ANIM 101 | Drawing - Gesture and Figure | 3.0 CSU |
| | Total Units | 40.0 | ., | possible pre | eparation for a career in animatio | n. | ANIM 104 | Drawing Fundamentals | 3.0 CSU |
| Selection | n Procedure | | | | ments for the Certificate | | ANIM 108 | Principles of Animation | 3.0 CSU |
| | | + - di! | | Required co | | | ANIM 115 | Storyboarding | 3.0 |
| | are open to all students who meen nts and course prerequisites. | et aumissi | 0[] | ANIM 101 | Drawing - Gesture and Figure | 3.0 CSU | ANIM 116 | Character Development | 1.5 |
| • | | | | ANIM 104 | Drawing Fundamentals | 3.0 CSU | ANIM 130 | Introduction to 3-D Computer | 3.0 |
| Special Inst | | | | ANIM 108 | Principles of Animation | 3.0 CSU | | Animation | |
| | Electives must be taken prior to e | | | ANIM 115 | Storyboarding | 3.0 | ANIM 132 | Modeling, Texture Mapping | 3.0 |
| | ience and can be taken in conjun | ction wit | l | ANIM 116 | Character Development | 1.5 | | and Lighting | 15 |
| core and sk | cills courses. | | | | | | ANIM 134 | Visual Effects I: Dynamics | 1.5 |

| ANIM 148Demo-Reel1.5ARTC 70Computer Graphics: Introduction3.0CSUARTD 17ADrawing: Life3.0CSU,UCTotal Units39.039.0Recommended Electives:ANIM 107Figure in MotionANIM 109Advanced Principles of AnimationANIM 119PortfolioOrtOrtfolioARTC 66PortfolioANIM 120Script Development for AnimationANIM 137AWork Experience in New Digital MediaANIM 175Web Animation With FlashARTD 16Drawing: PerspectiveARTD 17BDrawing: LifeARTD 20Design: Two DimensionalARTS 41ASculpture: LifePHOT 10Beginning Photography | ANIM 135 ANIM 136 ANIM 145 ANIM 146 | Visual Effects II: Particle Systems Animation Environment Layout Advanced 3-D Modeling 3-D Animation | 1.5 3.0 3.0 3.0 | |
|--|--|---|--------------------------|-------|
| ARTD 17A Drawing: Life 3.0 CSU,UC Total Units 39.0 Recommended Electives: 39.0 ANIM 107 Figure in Motion ANIM 109 Advanced Principles of Animation ANIM 109 Advanced Principles of Animation ANIM 119 Portfolio 07 0 ARTC 66 Portfolio ANIM 120 Script Development for Animation ANIM 137A Work Experience in New Digital Media ANIM 172 Motion Graphics With After Effects ANIM 175 Web Animation With Flash ARTD 16 Drawing: Perspective ARTD 17B Drawing: Life ARTD 20 Design: Two Dimensional ARTS 41A Sculpture: Life | / | | | CSU |
| Total Units39.0Recommended Electives:ANIM 107Figure in MotionANIM 109Advanced Principles of AnimationANIM 109Advanced Principles of AnimationANIM 119Portfolio OrtfolioOrtfolioARTC 66PortfolioANIM 120Script Development for AnimationANIM 137AWork Experience in New Digital MediaANIM 172Motion Graphics With After EffectsANIM 175Web Animation With FlashARTD 16Drawing: PerspectiveARTD 17BDrawing: LifeARTS 41ASculpture: Life | | | | |
| ANIM 107Figure in MotionANIM 107Figure in MotionANIM 109Advanced Principles of AnimationANIM 119Portfolio OrOrtfolioARTC 66PortfolioANIM 120Script Development for AnimationANIM 120Script Development for AnimationANIM 137AWork Experience in New Digital MediaANIM 172Motion Graphics With After EffectsANIM 175Web Animation With FlashARTD 16Drawing: PerspectiveARTD 17BDrawing: LifeARTD 20Design: Two DimensionalARTS 41ASculpture: Life | | 5 | | 00,00 |
| ANIM 109Advanced Principles of AnimationANIM 119PortfolioororARTC 66PortfolioANIM 120Script Development for AnimationANIM 137AWork Experience in New Digital MediaANIM 137AWork Experience in New Digital MediaANIM 172Motion Graphics With After EffectsANIM 175Web Animation With FlashARTD 16Drawing: PerspectiveARTD 17BDrawing: LifeARTD 20Design: Two DimensionalARTS 41ASculpture: Life | Recommen | ded Electives: | | |
| ANIM 119PortfolioOrtfolioARTC 66PortfolioANIM 120Script Development for AnimationANIM 137AWork Experience in New Digital MediaANIM 137AWork Experience in New Digital MediaANIM 172Motion Graphics With After EffectsANIM 175Web Animation With FlashARTD 16Drawing: PerspectiveARTD 17BDrawing: LifeARTD 20Design: Two DimensionalARTS 41ASculpture: Life | ANIM 107 | Figure in Motion | | |
| ARTC 66PortfolioARTC 66PortfolioANIM 120Script Development for AnimationANIM 137AWork Experience in New Digital MediaANIM 137AWork Experience in New Digital MediaANIM 172Motion Graphics With After EffectsANIM 175Web Animation With FlashARTD 16Drawing: PerspectiveARTD 17BDrawing: LifeARTD 20Design: Two DimensionalARTS 41ASculpture: Life | ANIM 109 | Advanced Principles of Animation | n | |
| ARTC 66PortfolioANIM 120Script Development for AnimationANIM 137AWork Experience in New Digital MediaANIM 137AMotion Graphics With After EffectsANIM 172Motion Graphics With After EffectsANIM 175Web Animation With FlashARTD 16Drawing: PerspectiveARTD 17BDrawing: LifeARTD 20Design: Two DimensionalARTS 41ASculpture: Life | ANIM 119 | Portfolio | | |
| ANIM 120Script Development for AnimationANIM 120Script Development for AnimationANIM 137AWork Experience in New Digital MediaANIM 172Motion Graphics With After EffectsANIM 175Web Animation With FlashARTD 16Drawing: PerspectiveARTD 17BDrawing: LifeARTD 20Design: Two DimensionalARTS 41ASculpture: Life | | <u>or</u> | | |
| ANIM 137AWork Experience in New Digital MediaANIM 172Motion Graphics With After EffectsANIM 175Web Animation With FlashARTD 16Drawing: PerspectiveARTD 17BDrawing: LifeARTD 20Design: Two DimensionalARTS 41ASculpture: Life | ARTC 66 | Portfolio | | |
| ANIM 172Motion Graphics With After EffectsANIM 175Web Animation With FlashARTD 16Drawing: PerspectiveARTD 17BDrawing: LifeARTD 20Design: Two DimensionalARTS 41ASculpture: Life | ANIM 120 | Script Development for Animatio | n | |
| ANIM 175Web Animation With FlashARTD 16Drawing: PerspectiveARTD 17BDrawing: LifeARTD 20Design: Two DimensionalARTS 41ASculpture: Life | ANIM 137A | Work Experience in New Digital N | ledia | |
| ARTD 16 Drawing: Perspective ARTD 17B Drawing: Life ARTD 20 Design: Two Dimensional ARTS 41A Sculpture: Life | ANIM 172 | Motion Graphics With After Effect | S | |
| ARTD 17BDrawing: LifeARTD 20Design: Two DimensionalARTS 41ASculpture: Life | ANIM 175 | | | |
| ARTD 20 Design: Two Dimensional ARTS 41A Sculpture: Life | | Drawing: Perspective | | |
| ARTS 41A Sculpture: Life | ARTD 17B | 5 | | |
| | / | | | |
| PHOT 10 Beginning Photography | | Sculpture: Life | | |
| | PHOT 10 | Beginning Photography | | |

Animation - Traditional Commercial and Entertainment Arts Certificate T1010

The Traditional Certificate provides training based around the principles of storytelling and animation. These skills lead to careers in television, film, Internet and gaming as an animator, character designer, storyboard artist, layout artist or director.

The Animation Program offers an integrated/interdisciplinary approach to prepare students to meet current and future job market demands. The student will be given a balanced blend of art and technology-based skills which are essential for today's careers in animation. The program offers an A.S. Degree and three Certificates. Course content is driven by industry needs in order to provide the student with the best possible preparation for a career in animation.

Requirements for the Certificate Required courses:

| ANIM 101 | Drawing - Gesture and Figure | 3.0 | CSU |
|----------|----------------------------------|--|---|
| ANIM 104 | Drawing Fundamentals | 3.0 | CSU |
| ANIM 108 | Principles of Animation | 3.0 | CSU |
| ANIM 109 | Advanced Principles of Animation | n 3.0 | |
| ANIM 111 | Animal Drawing | 1.5 | |
| | ANIM 104 ANIM 108 ANIM 109 | ANIM 104 Drawing Fundamentals ANIM 108 Principles of Animation ANIM 109 Advanced Principles of Animatior | ANIM 104Drawing Fundamentals3.0ANIM 108Principles of Animation3.0ANIM 109Advanced Principles of Animation 3.0 |

| ANIM 115 | Storyboarding | 3.0 | |
|-----------|----------------------------------|--------|--------|
| ANIM 116 | Character Development | 1.5 | |
| ANIM 117 | Animation Background Layout | 3.0 | CSU |
| | <u>or</u> | | |
| ARTC 165 | Illustration | 3.0 | CSU |
| ANIM 119 | Portfolio | 1.5 | |
| | <u>or</u> | | |
| ARTC 66 | Portfolio | 3.0 | |
| ANIM 120 | Script Development for Animatio | n3.0 | |
| ANIM 175 | Web Animation With Flash | 3.0 | |
| ARTC 70 | Computer Graphics: Introduction | 3.0 | CSU |
| ARTD 16 | Drawing: Perspective | 3.0 | CSU,UC |
| ARTD 17A | Drawing: Life | 3.0 | CSU,UC |
| ARTD 23A | Drawing: Head and Hands | 1.5 | CSU,UC |
| | Total Units | 39.0 | - 40.5 |
| Recommen | ded Electives: | | |
| ANIM 107 | Figure in Motion | | |
| ANIM 130 | Introduction to 3-D Computer An | imati | on |
| ANIM 137A | Work Experience in New Digital N | /ledia | |
| ARTD 17B | Drawing: Life | | |
| ARTD 20 | Design: Two Dimensional | | |
| ARTS 22 | Design: Three-Dimensional | | |
| ARTS 41A | Sculpture: Life | | |
| PHOT 8 | Digital Photography | | |
| | | | |

Architectural Technology - Level I Architecture and Engineering Design Department Certificate T0291

This multi-level certificate program prepares students to enter the field of architecture and related areas. The student is provided with an option of direct employment in the field or preparation or transfer to the professional school of architecture. The Level I certificate provides a broad overview of the fundamental skills essential to the field, suitable for

Requirements for the Certificate Required courses:

entry-level employment as an office assistant.

| | neganeaco | ui sesi | | | | | | |
|-----------------------------|-----------|---|-----|--------|--|--|--|--|
| | ARCH 10 | Design I - Elements of Design | 3.0 | CSU | | | | |
| | ARCH 11 | Architectural Drawing | 3.0 | CSU,UC | | | | |
| | ARCH 12 | Architectural Materials and Specifications | 3.0 | CSU | | | | |
| | ARCH 16 | Basic CAD and Computer Application | 4.0 | CSU,UC | | | | |
| Plus the following courses: | | | | | | | | |
| | ENGL 68 | Preparation for College Writing | 4.0 | | | | | |
| | | | 4.0 | | | | | |

| | Total Units | 21.0 | |
|---------|---------------------------------|------|--|
| MATH 51 | Elementary Algebra | 4.0 | |
| ENGL 68 | Preparation for College Writing | 4.0 | |

| | cure | | | | | | | | | |
|---|--|--|-----------------|---|--|---|------|----------------------|--|--|
| | Architectural Technology - Technology Concentration Level II Architecture and Engineering Design Department | | | | | Requirements for the Certificate Required courses: Completion of the Architectural Technology Level I and II course work (43) units. PLUS | | | | |
| | Certificat | • | | | ARCH 14 | Building and Zoning Codes | 3.0 | | | |
| | | Technology Concentration Certific | rate fr | nciises | ARCH 14 | Architectural Working | | CSU | | |
| | | reparation of architectural constru | | Jeuses | ANCITIS | Drawings - I | 5.0 | 00 | | |
| | documents (CAD) appli | , with emphasis on computer-aide cations. Regulatory requirements | ed des and a | n | ARCH 18 | Architectural Computer Aided Design Elements | 3.0 | | | |
| | student wil | f construction practices are also in I prepare a portfolio of CAD docun | nenta | tion, | ARCH 26 | Architectural CAD Working Drawings | 3.0 | | | |
| JC | | -D and 3-D projections. The Level I | | nology | EDT 20 | Technical Descriptive Geometry | 3.0 | CSU | | |
| JC | | on Certificate prepares students for | | | INSP 70 | Elements of Construction | 3.0 | CSU | | |
| JC | employmer specialist. | nt as a beginning CAD draftsman o | or pro | duction | Plus the fo | ollowing courses: | | | | |
| | • | | | | ARCH 28 | Architectural CAD 3-D | 3.0 | CSU | | |
| | Requirer Reauired co | ments for the Certificate | | | | Illustration and Animation | | | | |
| | | ourses: 1 of the Architectural Technology | l ovol | l course | ARCH 29 | Design IV - Advanced Project | 3.0 | CSU | | |
| | work (21) u | | | reourse | PLUS | | | | | |
| | PLUS | | | | Select one | (1) course from: | | | | |
| | ARCH 14 | Building and Zoning Codes | 3.0 | | ARCH 13 | Architectural Illustration | 3.0 | CSU,UC | | |
| | ARCH 15 | Architectural Working | | CSU | ARCH 21 | Design II - Architectural Design | 3.0 | CSU | | |
| | Allen 15 | Drawings - I | 5.0 | 000 | ARCH 23 | Architectural Presentations | 3.0 | CSU | | |
| | ARCH 18 | Architectural Computer | 3.0 | | ARCH 31 | World Architecture I | | CSU,UC | | |
| | | Aided Design Elements | | | ARCH 32 | World Architecture II | | CSU,UC | | |
| _ | ARCH 26 | Architectural CAD Working | 3.0 | | ARCH 89 | Architectural Work Experience | | - 2.0 | | |
| | | Drawings | | | EDT 26 | Civil Engineering Technology | 3.0 | CSU | | |
| | EDT 20 | Technical Descriptive Geometry | | CSU | | and CAD | 2.0 | <i>ccu</i> | | |
| | INSP 70 | Elements of Construction | 3.0 | CSU | INSP 71 | Construction Estimating Total Units | | CSU - 52.0 | | |
| | PLUS | | | | | | 50.0 | - 32.0 | | |
| t | | (1) course from: | | | Angleite | stural Tashnalasur | Deci | | | |
| ł | PHYS 1 | Physics | 4.0 | CSU,UC | | ectural Technology - ntration Level II | Jesi | gn | | |
| | | <u>Or</u> Community | 4.0 | | | ture and Engineering | | | | |
| N | PHYS 2AG | General Physics Total Units | | CSU,UC | | Department | | | | |
| | | local Units | 43.0 | | Certificat | te T0205 | | | | |
| | Aughite | atumal Ta aluma la mu | | | | Design Concentration Certificate focu | | | | |
| | | ctural Technology ology Concentration | 1.00 | | | ving, and presentation skills, includin | | | | |
| | | ure and Engineering | Lev | /erm | | tching and computer applications. Th | | | | |
| JC | Design D | epartment | | | | ortfolio of creative design assignmen | | Level II | | |
| | Certificat | | | | Design Concentration Certificate prepares students for employment as a design assistant or presentation specialist. | | | | | |
| | | l Technology Concentration Certifi | | | | | | | | |
| JC | | expertise in advanced CAD applica | | and | Requirements for the Certificate Required courses: | | | | | |
| professional practice. The Level III Technology | | | | Completion of the Architectural Technoloav Level I course | | | | | | |

Concentration Certificate prepares students for

production specialist.

employment as an intermediate CAD operator or

| compretio | rk (43) units. | Lever | i unu n | AKCH 32 | world Architecture II |
|-------------|---|---------|----------|-------------------------|---|
| PLUS | rk (4 <i>3) units</i> . | | | PLUS | |
| ARCH 14 | Building and Zoning Codes | 3.0 | | Select one | (1) course from: |
| ARCH 15 | Architectural Working Drawings - I | | CSU | ARCH 15 | Architectural Working Drawings - I |
| ARCH 18 | Architectural Computer Aided Design Elements | 3.0 | | ARCH 18 | <u>or</u> Architectural Computer |
| ARCH 26 | Architectural CAD Working Drawings | 3.0 | | PLUS | Aided Design Elements |
| EDT 20 | Technical Descriptive Geometry | 3.0 | CSU | Select three | e (3) units from: |
| INSP 70 | Elements of Construction | | CSU | ARTD 15A | Drawing: Beginning |
| Plus the fo | ollowing courses: | | | ARTD 20 | Design: Two Dimensional |
| ARCH 28 | Architectural CAD 3-D Illustration and Animation | 3.0 | CSU | ARTS 22 | Design: Three-Dimensional Total Units |
| ARCH 29 | Design IV - Advanced Project | 3.0 | CSU | | |
| PLUS | 5 , | | | Archite | ctural Technolog |
| | (1) course from: | | | | n Concentration L |
| ARCH 13 | Architectural Illustration | 3.0 | CSU,UC | | ure and Engineering |
| ARCH 21 | Design II - Architectural Design | 3.0 | CSU | | epartment |
| ARCH 23 | Architectural Presentations | 3.0 | CSU | Certificat | |
| ARCH 31 | World Architecture I | 3.0 | CSU,UC | | I Design Concentration Certif |
| ARCH 32 | World Architecture II | 3.0 | CSU,UC | | expertise in portfolio develog I practice. The Level III Desig |
| ARCH 89 | Architectural Work Experience | | - 2.0 | | prepares students for employ |
| EDT 26 | Civil Engineering Technology and CAD | 3.0 | CSU | intermedia | te design assistant or presen |
| INSP 71 | Construction Estimating | 3.0 | CSU | Requirer Reauired co | ments for the Certifica |
| | Total Units | 50.0 | - 52.0 | | ourses: 1 of the Architectural Techno |
| | | | | | ion course work (42) units. |
| Archite | ectural Technology - I | Desi | ign | | llowing courses: |
| Conce | ntration Level II | | - | ARCH 27 | Design III - Environmental |
| | ture and Engineering | | | ARCH 29 | Design IV - Advanced Proje |
| | Department | | | PLUS | |
| | te T0205 | | | | (1) course from: |
| | Design Concentration Certificate focu | | | ARCH 14 | Building and Zoning Codes |
| | wing, and presentation skills, including Atching and computer applications. Th | | | ARCH 15 | Architectural Working |
| | ortfolio of creative design assignmen | | | | Drawings - I |
| Design Con | centration Certificate prepares studer nt as a design assistant or presentatio | nts for | | ARCH 18 | Architectural Computer Aid Design Elements |
| | ments for the Certificate | | | ARCH 26 | Architectural CAD Working |
| Reauired | | | | | Drawings |
| | n of the Architectural Technology | Level | l course | ARCH 28 | Architectural CAD 3-D |
| work (21) | | | | | Illustration and Animation |
| PLUS | | | | ARCH 89 | Architectural Work Experien |
| ARCH 13 | Architectural Illustration | 3.0 | CSU,UC | INSP 70 | Elements of Construction Total Units |
| ARCH 21 | Design II - Architectural Design | 3.0 | CSU | | IUCAI UNICS |
| Andizi | | 5.0 | 00 | | |

| ARCH 23 | | | | | | | |
|---|--|--|------------------------------|--|--|--|--|
| ADCU 24 | Architectural Presentations | 3.0 | CSU | | | | |
| ARCH 31 | World Architecture I | 3.0 | CSU,UC | | | | |
| ARCH 32 | World Architecture II | 3.0 | CSU | | | | |
| PLUS | | | | | | | |
| Select one | (1) course from: | | | | | | |
| ARCH 15 | Architectural Working Drawings - I | 3.0 | CSU | | | | |
| | or | | | | | | |
| ARCH 18 | Architectural Computer | 3.0 | | | | | |
| /incir io | Aided Design Elements | 5.0 | | | | | |
| PLUS | - | | | | | | |
| | e (3) units from: | | | | | | |
| ARTD 15A | Drawing: Beginning | 3.0 | CSU,UC | | | | |
| ARTD 20 | Design: Two Dimensional | 3.0 | CSU,UC | | | | |
| ARTS 22 | Design: Three-Dimensional | 3.0 | CSU,UC | | | | |
| | Total Units | 42.0 | | | | | |
| additional expertise in portfolio development and professional practice. The Level III Design Concentration Certificate prepares students for employment as an intermediate design assistant or presentation specialist. | | | | | | | |
| | te design assistant or presentati ments for the Certificate | on speci | alist. | | | | |
| Required c | te design assistant or presentati ments for the Certificate ourses: | ion speci e | alist. | | | | |
| Required c | te design assistant or presentati ments for the Certificate ourses: n of the Architectural Technolog | ion speci e | alist. | | | | |
| Required c Completion Concentrat | te design assistant or presentati ments for the Certificate ourses: n of the Architectural Technolog tion course work (42) units. | ion speci e | alist. | | | | |
| Required c Completion Concentrat | te design assistant or presentati ments for the Certificate ourses: n of the Architectural Technolog | ion speci 2 17 Desig | alist. n | | | | |
| Required c Completion Concentrat Plus the fo | te design assistant or presentati ments for the Certificate ourses: n of the Architectural Technolog tion course work (42) units. llowing courses: | ion speci 2 17 Desig | n n CSU,UC | | | | |
| Required c Completion Concentrate Plus the fo ARCH 27 ARCH 29 | te design assistant or presentati ments for the Certificate ourses: n of the Architectural Technolog tion course work (42) units. Ilowing courses: Design III - Environmental Des | ion speci e ay Desig i sign 3.0 | n n CSU,UC | | | | |
| Required c Completion Concentrate Plus the fo ARCH 27 ARCH 29 PLUS | te design assistant or presentati ments for the Certificate ourses: n of the Architectural Technolog tion course work (42) units. Ilowing courses: Design III - Environmental Des | ion speci e ay Desig i sign 3.0 | n n CSU,UC | | | | |
| Required c Completion Concentrate Plus the fo ARCH 27 ARCH 29 PLUS Select one | te design assistant or presentati ments for the Certificate ourses: no f the Architectural Technolog tion course work (42) units. Ilowing courses: Design III - Environmental Des Design IV - Advanced Project (1) course from: | ion speci e ay Desig i sign 3.0 | n n CSU,UC | | | | |
| Required c Completion Concentrate Plus the fo ARCH 27 ARCH 29 PLUS | te design assistant or presentati ments for the Certificate ourses: n of the Architectural Technolog tion course work (42) units. Ilowing courses: Design III - Environmental Des Design IV - Advanced Project | ion speci a ny Desig iign 3.0 3.0 3.0 | n n CSU,UC | | | | |
| Required c Completion Concentrate Plus the fo ARCH 27 ARCH 29 PLUS Select one ARCH 14 | te design assistant or presentati ments for the Certificate ourses: no f the Architectural Technolog tion course work (42) units. Ilowing courses: Design III - Environmental Des Design IV - Advanced Project (1) course from: Building and Zoning Codes | ion speci a ny Desig iign 3.0 3.0 3.0 | n CSU,UC CSU | | | | |
| Required c Completion Concentrate Plus the fo ARCH 27 ARCH 29 PLUS Select one ARCH 14 | te design assistant or presentati ments for the Certificate ourses: no f the Architectural Technolog tion course work (42) units. Ilowing courses: Design III - Environmental Des Design IV - Advanced Project (1) course from: Building and Zoning Codes Architectural Working | ion speci a ny Desig iign 3.0 3.0 3.0 | n CSU,UC CSU | | | | |
| Required c Completion Concentrate Plus the fo ARCH 27 ARCH 29 PLUS Select one ARCH 14 ARCH 15 | te design assistant or presentati ments for the Certificate ourses: nof the Architectural Technolog tion course work (42) units. Ilowing courses: Design III - Environmental Des Design IV - Advanced Project (1) course from: Building and Zoning Codes Architectural Working Drawings - 1 Architectural Computer Aided | ion speci y Design ign 3.0 3.0 3.0 3.0 | n CSU,UC CSU | | | | |
| Required c Completion Concentrat Plus the fo ARCH 27 ARCH 29 PLUS Select one ARCH 14 ARCH 15 ARCH 18 | te design assistant or presentati ments for the Certificate ourses: no f the Architectural Technolog tion course work (42) units. Ilowing courses: Design III - Environmental Des Design IV - Advanced Project (1) course from: Building and Zoning Codes Architectural Working Drawings - 1 Architectural Computer Aided Design Elements Architectural CAD Working | ion speci yy Design ign 3.0 3.0 3.0 3.0 3.0 3.0 3.0 | n CSU,UC CSU | | | | |
| Required c Completion Concentrate Plus the fo ARCH 27 ARCH 29 PLUS Select one ARCH 14 ARCH 15 ARCH 18 ARCH 26 | te design assistant or presentati ments for the Certificate ourses: n of the Architectural Technolog tion course work (42) units. Ilowing courses: Design III - Environmental Des Design IV - Advanced Project (1) course from: Building and Zoning Codes Architectural Working Drawings - 1 Architectural Computer Aided Design Elements Architectural CAD Working Drawings Architectural CAD 3-D | ion speci y Design ign 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 | alist. n CSU,UC CSU | | | | |

3.0 CSU

51.0

| | | | 1 | | | 1 | | | | , , | |
|---------------|---|-------------------|--------------|---|-------------------|--------------|--------------------------------------|--------------------------|--------------|--|---------------------|
| | | | | urse work (18 Units) as follows: | | BUSM 66 | Small Business Management | 3.0 CSU | PLUS | | |
| | ss: Human Resource | | Level I as f | | | PLUS | | | Additiona | l required courses: | |
| | ement - Level II | | BUSM 20 | Principles of Business | 3.0 CSU,UC | Select one | (1) course from: | | Level III as | s follows: | |
| | ng and Management Depa | artment | BUSM 61 | Business Organization | 3.0 CSU | BUSS 70 | International Marketing Conce | ents 3.0 | BUSL 20 | International Business Law | 3.0 |
| Certificat | | | | and Management | | CHIN 1 | Beginning Chinese | 4.0 CSU,UC | BUSM 50 | World Culture: | 3.0 CSU |
| | te builds upon the Level I Certificat | | BUSM 62 | Human Resource Management | 3.0 | FRCH 1 | Elementary French | 4.0 CSU,UC | | A Business Perspective | |
| | th specific knowledge of human res | | Required | courses: | | GERM 1 | Elementary German | 4.0 CSU,UC | | <u>or</u> | |
| | nt functions. HR law, compensation | | Level II as | follows: | | ITAL 1 | Elementary Italian | 4.0 CSU,UC | ANTH 22 | General Cultural Anthropology | 4 3.0 CSU,UC |
| | nding of human motivation provid foundation from which to build a c | | ANTH 22 | General Cultural Anthropology | 3.0 CSU,UC | JAPN 1 | Elementary Japanese | 4.0 CSU,UC | BUSM 52 | Principles of Exporting | 3.0 CSU |
| | ompletion of the Business: Human I | | BUSM 60 | Human Relations in Business | 3.0 CSU | SPAN 1 | Elementary Spanish | 4.0 CSU,UC | | and Importing | |
| | nt – Level I course work (9 Units). | nesource | BUSO 25 | Business Communications | 3.0 CSU | JFAINT | Total Units | 4.0 C30,0C | | Total Units | 27.0 - 28.0 |
| - | | | 0000 20 | <u>or</u> | 510 650 | | IOLAI UNILS | 10.0 - 19.0 | Recomme | nded Electives: | |
| • | nents for the Certificate | | BUSO 25A | | 1.5 CSU | | formation: | | BUSM 81 | Work Experience in Business | |
| Required c | | | 00002011 | and | 1.5 650 | | eceiving financial aid need to de | | BUSM 85 | Special Issues in Business | |
| Level I as fo | | | BUSO 25B | Business Communications B | 1.5 CSU | Certificate | as their goal to meet Financial A | id requirements. | BUSS 85 | Special Issues in Marketing | |
| BUSM 20 | Principles of Business | 3.0 CSU,UC | | | 1.5 050 | | | | | | |
| BUSM 61 | Business Organization | 3.0 CSU | | ollowing courses: | | Busine | ss: International - Le | evel III | Special Int | | |
| | and Management | 2.0 | Level III a | | | Account | ing and Management Dep | partment | | eceiving financial aid need to de | |
| BUSM 62 | Human Resource Management | 3.0 | BUSA 70 | Payroll and Tax Accounting | 3.0 | | te L0528 | | Certificate | as their goal to meet Financial A | la requirements. |
| | llowing courses: | | CISB 15 | Microcomputer Applications | 4.0 CSU,UC | Upon com | pletion of the Business: Internation | onal Level III | | | |
| Level II as | | | | Total Units | 25.0 | | students will have acquired the | | | ess: Management - L | |
| ANTH 22 | General Cultural Anthropology | 3.0 CSU,UC | Special In | formation: | | | successfully complete internatio | | | ing and Management Dep | partment |
| BUSM 60 | Human Relations in Business | 3.0 CSU | Students r | eceiving financial aid need to decl | are the Level III | | ns. Students will gain a practical, | | | te L0586 | |
| BUSO 25 | Business Communications | 3.0 CSU | Certificate | as their goal to meet Financial Aid | d requirements. | | e of how to compete in a global s | | | cate builds upon the Level I Certi | |
| | <u>or</u> | | | | | - | laws, regulations, and requirem | | | vith proven business tools that w | |
| BUSO 25A | Business Communications A | 1.5 CSU | Rusine | ess: International - Le | velli | | n of the Business: International - | Level I and II | | ent careers. Students will be exp | |
| | <u>and</u> | | | ing and Management Depa | | course wor | k (18 Units) as follows: | | | ess simulations that will lead to r | |
| BUSO 25B | Business Communications B | 1.5 CSU | | te L0597 | | Require | ments for the Certificate | 2 | | Business presentations, business | |
| | Total Units | 18.0 | | ness: International - Level II Certificat | te student will | Required o | ourses: | | | onflict resolution, and computer loped in this certificate. | use ale cole |
| Special Inf | ormation | | | ods and approaches to managing th | | Level I as f | ollows: | | | - | |
| • | ceiving financial aid need to decla | are the Level III | | isiness in an international environme | | BUSM 20 | Principles of Business | 3.0 CSU,UC | | ments for the Certificate | 2 |
| | is their goal to meet Financial Aid | | | h theoretical knowledge and practic | | BUSM 51 | Principles of International | 3.0 CSU | Required o | | |
| certificate | is then gour to meet manetal and | requirements. | to managir | ng and marketing within the global a | arena. Students | | Business | | | n of Business: Management Lev | el I |
| Dusing | | | | e workforce will acquire new skills th | | BUSS 36 | Principles of Marketing | 3.0 CSU | | rk (9 units) as follows: | |
| | ss: Human Resource | | | n a fast-paced dynamic global enviro | nment, with an | Required of | ourses: | | BUSM 20 | Principles of Business | 3.0 CSU,UC |
| | ement - Level III | | emphasis o | on the small business perspective. | | Level II as | | | BUSM 61 | Business Organization and Management | 3.0 CSU |
| | ng and Management Depa | artment | Require | ments for the Certificate | | BUSM 61 | Business Organization | 3.0 CSU | BUSS 36 | Principles of Marketing | 3.0 CSU |
| Certificat | | | Required | courses: | | | and Management | | | | 3.0 (30 |
| | npleting the Level III Certificate will h | | Completio | n of the Business: International - | Level I course | BUSM 66 | Small Business Management | 3.0 CSU | | ollowing courses: | |
| | l experience in business communicat e.Successful completion of this certif | | | nits) as follows: | | PLUS | <u>,</u> | | Level II as | | |
| | andle the increasing diversity and co | | BUSM 20 | Principles of Business | 3.0 CSU,UC | | (1) course from: | | BUSM 60 | Human Relations in Business | 3.0 CSU |
| | nan resource management. Completi | | BUSM 51 | Principles of International | 3.0 CSU | BUSS 70 | International Marketing Conce | ents 3.0 | BUSM 62 | Human Resource Managemen | |
| | rtificate will help those working in th | | | Business | | CHIN 1 | Beginning Chinese | 4.0 CSU,UC | CISB 15 | Microcomputer Applications | 4.0 CSU,UC |
| | d to prepare for professional certification | | BUSS 36 | Principles of Marketing | 3.0 CSU | FRCH 1 | Elementary French | 4.0 CSU,UC 4.0 CSU,UC | | Total Units | 19.0 |
| | ource Certification Institute. | | Plus the f | ollowing courses: | | | Elementary German | 4.0 CSU,UC 4.0 CSU,UC | Special Int | formation: | |
| Require | nents for the Certificate | | Level II as | • | | GERM 1 | | | | eceiving financial aid need to de | clare the Level III |
| Required of | | | BUSM 61 | Business Organization | 3.0 CSU | ITAL 1 | Elementary Italian | 4.0 CSU,UC | | as their goal to meet Financial A | |
| | n of Human Resource Manageme | nt - Level I and | | and Management | | JAPN 1 | Elementary Japanese | 4.0 CSU,UC | | - | - |
| | | | 1 | | | SPAN 1 | Elementary Spanish | 4.0 CSU,UC | 1 | | |

SPAN 1

Elementary Spanish

4.0 CSU,UC

PROGRAMS OF STUDY LEADING TO A CERTIFICATE

Section 7 37

Accounting and Management Department Certificate T0526 Upon completion of the Business: Business Management -Level III Certificate, students will have built a foundation of management strategies and practices which will enable them to prosper in an ever-changing business environment. Students will have a strategic perspective of production, marketing, accounting, international business and human resources. Completion of the Business: Management - Level III Certificate will lead to new opportunities and provide students with a solid foundation upon which to build a management career. Requirements for the Certificate

Business: Management - Level III

Required courses: Completion of the Business: Management - Level I and Level II course work (18.5 Units) as follows: Level I as follows:

| BUSM 20 | Principles of Business | 3.0 | CSU,UC | | | | |
|----------------------|---|---------|--------|--|--|--|--|
| BUSM 61 | Business Organization and Management | 3.0 | CSU | | | | |
| BUSS 36 | Principles of Marketing | 3.0 | CSU | | | | |
| Required co | ourses: | | | | | | |
| Level II as f | follows: | | | | | | |
| BUSM 60 | Human Relations in Business | 3.0 | CSU | | | | |
| BUSM 62 | Human Resource Management | 3.0 | | | | | |
| CISB 15 | Microcomputer Applications | 4.0 | CSU,UC | | | | |
| Plus the fol | llowing courses: | | | | | | |
| Level III as | follows: | | | | | | |
| BUSA 7 | Principles of Accounting - Financial | 5.0 | CSU,UC | | | | |
| BUSM 10 | Principles of Continuous Quality Improvement | 3.0 | | | | | |
| BUSM 51 | Principles of International Business | 3.0 | CSU | | | | |
| | Total Units | 30.0 | | | | | |
| Special Information: | | | | | | | |
| Ctudante ra | coiving financial aid pood to docl | ara tha | | | | | |

Students receiving financial aid need to declare the Level III Certificate as their goal to meet Financial Aid requirements.

Business: Retail Management - Level II

Accounting and Management Department Certificate L0591

This intermediate certificate builds upon the Level I Certificate to expose students to the various functions of managers in retail positions. Fundamentals of business

| 2 | | | |
|-----------------------|---|------------------|--|
| student a | ion, retail marketing and staffing p solid foundation from which to bui ragement. | | Required courses: Completion of the work (21.5 Units) of |
| Required Completio | on of the Retail Management - Lev | el I course | BUSA 11 Fundar BUSM 61 Busines and Ma |
| BUSO 25 | Units) as follows: Business Communications | 3.0 CSU | BUSM 62 Human BUSS 36 Princip |
| BUSS 50 | Retail Store Management | 3.0 C30 | |
| 000000 | and Merchandising | 5.0 | Plus the following |
| | <u>or</u> | | Level III as follows: BUSA 7 Princip |
| FASH 62 | Retail Store Management | 3.0 CSU | - Finan |
| | and Merchandising | | BUSM 60 Human |
| CISB 15 | Microcomputer Applications | 4.0 CSU,U | BUSO 26 Oral Co |
| | following courses: | | Total U |
| Level II as | | | Special Information |
| BUSA 11 | Fundamentals of Accounting | 3.0 | Students receiving f |
| BUSM 61 | Business Organization and Management | 3.0 CSU | Certificate as their g |
| BUSM 62 | Human Resource Management | 3.0 | |
| BUSS 36 | Principles of Marketing | 3.0 CSU | Business: Sn |
| | Total Units | 22.0 | Managemer |
| Snecial In | formation: | | Accounting and |
| | receiving financial aid need to decla | are the Level II | Certificate L058 |
| | as their goal to meet Financial Aid | | |
| | | | tools. This certificate |
| Busine | ess: Retail Manageme | nt | teamwork, and leade |
| - Leve | | | productivity through |
| | ting and Management Depa | artment | of this certificate wil |
| | ate T0521 | | those currently emp |
| | ory statement: Students completing | | |
| 1 | ertificate will have knowledge and e in business communication, leade | | Required courses: Completion of Busi |
| | controls. Successful completion of the | | Level I course work |
| 1 | tudents to handle the increasing d | | BUSM 20 Princip |
| complexit | y of modern retail management. | | BUSM 66 Small E |
| Require | ements for the Certificate | | BUSS 36 Princip |
| Required | | | Plus the following |
| | on of the Retail Management - Lev | el I course | Level II as follows: |
| | Units) as follows: | 2.0. ((1) | BUSM 60 Human |
| BUSO 25 | Business Communications | 3.0 CSU | BUSM 61 Busine |
| BUSS 50 | Retail Store Management and Merchandising | 3.0 | and Ma |
| | or | | BUSM 62 Human |
| FASH 62 | Retail Store Management | 3.0 CSU | Total l |
| | and Merchandising | | Special Information |
| CISB 15 | Microcomputer Applications | 4.0 CSU,U | Students receiving f |

^r the Retail Management - Level II course its) as follows: undamentals of Accounting 3.0 3.0 CSU usiness Organization nd Management uman Resource Management 3.0 rinciples of Marketing 3.0 CSU vina courses: lows: 5.0 CSU,UC rinciples of Accounting Financial uman Relations in Business 3.0 CSU ral Communications for Business3.0 otal Units 33.0 nation: ving financial aid need to declare the Level III heir goal to meet Financial Aid requirements. Small Business nent - Level II and Management Department .0588 mall Business Management - Level II ides students with practical small business ficate focuses on issues such as motivation, leadership skills that lead to enhanced rough the development of people. Completion te will lead to new career opportunities for employed in the small business arena. nts for the Certificate ses: Business: Small Business Management work (9 Units) as follows: rinciples of Business 3.0 CSU,UC mall Business Management 3.0 CSU rinciples of Marketing 3.0 CSU ving courses: ows: 3.0 CSU uman Relations in Business usiness Organization 3.0 CSU nd Management uman Resource Management 3.0 otal Units 18.0 nation: Students receiving financial aid need to declare the Level III Certificate as their goal to meet Financial Aid requirements.

Business: Small Business Management - Level III Accounting and Management Department Certificate T0590

Upon completion of the Business: Small Business Management - Level III Certificate, students will have built a foundation of management strategies and practices which will enable them to prosper in an ever- changing small business environment. Computer skills applicable to small business will be developed. Students will have a strategic perspective across all small business functions. Students will acquire the skills and abilities necessary to build a successful small business career.

Requirements for the Certificate Required courses:

Completion of Business: Small Business Management Level I and II course work (18.5 Units) as follows:

| BUSM 20 | Principles of Business | 3.0 | CSU,UC |
|-------------------------------|--|------------|--------|
| BUSM 66 | Small Business Management | 3.0 | CSU |
| BUSS 36 | Principles of Marketing | 3.0 | CSU |
| Required c | ourses: | | |
| BUSM 60 | Human Relations in Business | 3.0 | CSU |
| BUSM 61 | Business Organization and Management | 3.0 | CSU |
| BUSM 62 | Human Resource Management | 3.0 | |
| | | | |
| Plus the fo | llowing courses: | | |
| Plus the fo Level III as | - | | |
| | - | 5.0 | CSU,UC |
| Level III as | follows: Principles of Accounting | 5.0 3.0 | CSU,UC |
| Level III as BUSA 7 | follows: Principles of Accounting - Financial Principles of Continuous | | CSU,UC |

Special Information:

Students receiving financial aid need to declare the Level III Certificate as their goal to meet Financial Aid requirements.

Children's Program Certificate: Administration

Child Development

Certificate T1313 The Children's Program Certificate: Administration Specialization is designed for the student who desires general knowledge about Early Childhood Developmen

general knowledge about Early Childhood Development and skills in administering programs for young children. This certificate meets or exceeds Title 22 education requirements for Center Director. Direct experience with

| | | | | | | | | Prog | grams of | Study Leading to a | Certi | ficate |
|------------------------|---|-----------------------|------------------------------|--|-------------------------|-------------------------|--|--------------------|----------------------------|---|--------------------|----------|
| | highly recommended to complete tive administrator. | preparation to | CHLD 82 | Advocacy in Early Childhood Development | 1.0 | CHLD 5 | Principles/Practices in Child Development Programs | 3.0 CSU | CHLD 10 | Child Growth and Development <u>or</u> | 3.0 | CSU,UC |
| Require Reauired co | ments for the Certificate | | CHLD 83 | Current Issues in Child Development | 1.0 | CHLD 6 | Survey of Child Development Curriculum | 3.0 CSU | CHLD 10H | Child Growth and Development - Honors | 3.0 | CSU,UC |
| | n of the Children's Program Certifi | cate: | | Total Units | 43.0 | CHLD 10 | Child Growth and Development or | 3.0 CSU,UC | CHLD 64 | Health, Safety and Nutrition of Young Children | 3.0 | CSU |
| CHLD 1 CHLD 5 | Child, Family and Community Principles/Practices | 3.0 CSU,UC 3.0 CSU | | en's Program Certific al - Level II | ate: | CHLD 10H | Child Growth and Development - Honors | 3.0 CSU,UC | CHLD 71A | Administration of Child Development Programs | 3.0 | CSU |
| CHLD 6 | in Child Development Programs Survey of Child | 3.0 CSU | | velopment | | Plus the fo | llowing courses: follows: | | CHLD 71B | Management/Marketing/ Personnel for ECD Programs | 3.0 | |
| CHLD 10 | Development Curriculum Child Growth and Development | | This certifica | ate enhances the student's knowled additional skills in working with yo | | CHLD 64 | Health, Safety and Nutrition of Young Children | 3.0 CSU | FCS 41 | Life Management Total Units | 3.0 33.0 | CSU |
| CHLD 10H | or Child Growth and Development | | Require | ments for the Certificate | | CHLD 68 CHLD 84 | Children With Special Needs Guidance & Discipline | 3.0 CSU 1.0 CSU | Recommen BUSA 70 | nded Electives: Payroll and Tax Accounting | | |
| CHLD 64 | - Honors Health, Safety and Nutrition | 3.0 CSU | | ourses: 1 of the Children's Program worl evel I, as follows: | k: | | in Early Childhood Settings | 1.0 0.00 | BUSA 71 | <u>or</u> Financial Planning | | |
| CHLD 68 | of Young Children Children With Special Needs | 3.0 CSU | CHLD 1 | Child, Family and Community | 3.0 CSU,UC | | e (3) courses from: | | BUSL 18 | Business Law | | |
| CHLD 84 | Guidance and Discipline in Child Development Settings | 1.0 CSU | CHLD 5 CHLD 6 | Principles/Practices in Child Development Program Survey of Child | 3.0 CSU s 3.0 CSU | Level III as CHLD 50 | Multicultural Education: | 3.0 | BUSL 18H BUSM 20 | <u>or</u> Business Law - Honors Principles of Pusiness | | |
| PLUS | | | CILDO | Development Curriculum | 5.0 (50 | CHLD 61 | Anti-Bias Perspective Language Arts & Art Media | 3.0 | BUSM 20 BUSM 61 | Principles of Business Business Organization and Man | ageme | nt |
| Select thre | e (3) courses from: | | CHLD 10 | Child Growth and Developmen | t 3.0 CSU,UC | | for Young Children | 5.0 | BUSO 25 | Business Communications | ugenie | |
| CHLD 61 | Language Arts & Art Media for Young Children | 3.0 | CHLD 10H | <u>or</u> Child Growth and Developmen | t 3.0 CSU,UC | CHLD 62 | Music and Motor Development for Young Children | 3.0 CSU | BUSS 33 BUSS 36 | Advertising and Promotion Principles of Marketing | | |
| CHLD 62 | Music and Motor Development for Young Children | 3.0 CSU | Plus the fa | - Honors <i>Ilowing courses:</i> | | CHLD 63 | Creative Sciencing and Math for Young Children | 3.0 | CISB 11 | Computer Information Systems | | |
| CHLD 63 | Creative Sciencing and Math for Young Children | 3.0 | Level II as | follows: | | CHLD 73 | Infant/Toddler Care and Development | 3.0 CSU | Childre | en's Program Certific | ate: | |
| CHLD 73 | Infant/Toddler Care and Development | 3.0 CSU | CHLD 64 | Health, Safety and Nutrition of Young Children | 3.0 CSU | | Total Units | 28.0 | Teachi | | | |
| PLUS | | | CHLD 68 CHLD 84 | Children With Special Needs Guidance & Discipline | 3.0 CSU 1.0 CSU | Childre | en's Program Certifica | ate: | Certificat | | | |
| Additional | required courses: | | CIILD 04 | in Early Childhood Settings | 1.0 C30 | | Business Managemer | | | n's Program Certificate: Teaching | | |
| CHLD 50 | Multicultural Education: Anti-Bias Perspective | 3.0 | | Total Units | 19.0 | | velopment | | Early Childl | I for the student who desires know hood Development and skills for t iis certificate meets or exceeds Tit | eachin | g young |
| CHLD 71A | Administration of Child Development Programs | 3.0 CSU | | en's Program Certific al - Level III | ate: | | n's Programs Small Business Mana provides information for operating | | requiremer | nts for fully qualified teachers and ceed Title 5 education requiremer | l is exp | ected to |
| CHLD 71B | Management/Marketing/ Personnel for ECD Programs | 3.0 | Child De | velopment | | preschool. | ments for the Certificate | , | Level (with | 1 16 units of G.E. English, math or 1 d Humanities). | | |
| CHLD 75 | Supervising Adults in Early Childhood Settings | 2.0 | | evel of the Children's Program Ce expected to meet or exceed Title | | Required of BUSM 60 | | 3.0 CSU | Require | ments for the Certificate | | |
| PLUS | | | | its for Assistant Teacher, Associat | | BUSM 66 | Small Business Management | 3.0 CSU | Required C CHLD 1 | Child, Family and Community | 3.0 | CSU,UC |
| Select four | r (4) units from: | | | ith 16 units of G.E.) | e reacher, and | BUSO 5 | Business English | 3.0 | CHLD 5 | Principles/Practices | | CSU,UC |
| Note: Your | four (4) unit selection should no | t include any | Require | nents for the Certificate | | CHLD 1 | Child, Family and Community | 3.0 CSU,UC | CILD 5 | in Child Development Programs | | 00 |
| | have previously taken. | | Required of | | | CHLD 5 | Principles/Practices | | CHLD 6 | Survey of Child | | CSU |
| | Small Business Management | 3.0 CSU | Completion | n of the Children's Program cour | se work: | | in Child Development Programs | | | Development Curriculum | | |
| CHLD 72 CHLD 73 | Teacher, Parent and Child Relationships Infant/Toddler Care | 3.0 | General - L CHLD 1 | evel I, as follows: Child, Family and Community | 3.0 CSU,UC | CHLD 6 | Survey of Child Development Curriculum | 3.0 CSU | CHLD 10 | Child Growth and Development <u>or</u> | 3.0 | CSU,UC |
| | and Development | 3.0 CSU | | | | | | | | | | |

CHLD 10H Child Growth and Development 3.0 CSU.UC

| | - Honors | 5.0 | CJU |
|--------------|--|-----|-----|
| CHLD 64 | Health, Safety and Nutrition of Young Children | 3.0 | CSU |
| CHLD 68 | Children With Special Needs | 3.0 | CSU |
| CHLD 84 | Guidance and Discipline in Child Development Settings | 1.0 | CSU |
| Plus the fol | llowing courses: | | |
| CHLD 50 | Multicultural Education: Anti-Bias Perspective | 3.0 | |
| CHLD 66 | Early Childhood Development Observation | 2.0 | CSU |
| CHLD 66L | Early Childhood Development Observation Laboratory | 1.0 | CSU |
| CHLD 67 | Early Childhood Development Participation | 2.0 | CSU |
| CHLD 67L | Early Childhood Development Participation Laboratory | 1.0 | CSU |
| CHLD 69 | Early Childhood Development Field Work Seminar | 2.0 | CSU |
| CHLD 75 | Supervising Adults in Early Childhood Settings | 2.0 | |
| CHLD 91 | Early Childhood Development Field Work | 1.0 | CSU |
| PLUS | | | |
| Coloct two | (2) courses from | | |

| Select two | (2) courses from: | | |
|------------|---|------|-----|
| CHLD 51 | Early Literacy in Child Development | 3.0 | |
| CHLD 61 | Language Arts & Art Media for Young Children | 3.0 | |
| CHLD 62 | Music and Motor Development for Young Children | 3.0 | CSU |
| CHLD 63 | Creative Sciencing and Math for Young Children | 3.0 | |
| | Total Units | 39.0 | |

Computer and Networking Technology - Level I **Electronics and Computer Technology Department**

Certificate L0795

The Computer and Networking Technology Certificates prepare students to enter the computer and networking fields as service technicians. The program provides foundations in basic electronics, computer servicing, operating systems, network/server servicing, and customer relations skills. The student will be prepared to perform installation, software configuration, and the maintenance, operation, troubleshooting and repair of computers and

| their associated networking software/hardware. In addition the program prepares students to take the A+, Network+, Server+ and Security+ certification tests offered at testing centers throughout the country. These certifications are CompTIA sponsored and are recognized worldwide as industry benchmarks for computer and networking technician. Further, the student will develop the requisite skills upon which to build in order to seek |
|---|
| additional certification. Requirements for the Certificate |

Required courses:

| PC Servicing | 40 | |
|------------------------------|---|---|
| 5 | | |
| PC Operating Systems | 4.0 | |
| PC Troubleshooting | 4.0 | |
| A+ Certification Preparation | 3.0 | |
| Technical Applications | 3.0 | CSU |
| in Microcomputers | | |
| <u>or</u> | | |
| Microcomputer Applications | 4.0 | CSU,UC |
| Electronic Circuits (DC) | 4.0 | CSU |
| Electronic Circuits (AC) | 4.0 | CSU |
| Digital Electronics | 4.0 | CSU |
| Total Units | 30.0 | - 31.0 |
| | A+ Certification Preparation Technical Applications in Microcomputers <u>or</u> Microcomputer Applications Electronic Circuits (DC) Electronic Circuits (AC) Digital Electronics | PC Operating Systems4.0PC Troubleshooting4.0A+ Certification Preparation3.0Technical Applications3.0in Microcomputers0Or4.0Electronic Circuits (DC)4.0Electronic Circuits (AC)4.0Digital Electronics4.0 |

Computer and Networking Technology - Level II **Electronics and Computer**

Technology Department Certificate T0726

The Computer and Networking Technology Certificates prepare students to enter the computer and networking fields as service technicians. The program provides foundations in basic electronics, computer servicing, operating systems, network/server servicing, security systems and customer relations skills. The student will be prepared to perform installation, software configuration, and the maintenance, operation, troubleshooting and repair of computers and their associated networking software/hardware. In addition, the student is prepared to take the A+, Network+, Server+, and Security+ certification tests offered at testing centers throughout the country. These certifications are recognized worldwide as industry benchmarks for computer and networking technicians. Further, the student will have the requisite skills upon which to build in order to seek additional certifications.

| | Requirements for the Certificate Requirements for Required courses: | | | | | ments for the Certificate ourses: |
|----|---|--|--|--------|--|-----------------------------------|
| | Completion | Completion of the Computer and Networking Technology - | | | GRAP 1 | Computer Graphics Lab |
| | Level I cour | rse work, as follows: | - | | GRAP 10 | Photo Editing with Photoshop |
| | CNET 50 | PC Servicing | 4.0 | | GRAP 12 | Advanced Photo Editing |
| | CNET 52 | PC Operating Systems | 4.0 | | | with Photoshop |
| | CNET 54 | PC Troubleshooting | 4.0 | | GRAP 14 | Digital Color Management |
| | CNET 60 | A+ Certification Preparation | 3.0 | | GRAP 16 | Digital Image Design |
| | ELEC 11 | Technical Applications | 3.0 | CSU | | with Illustrator & Freehand |
| | | in Microcomputers | | | GRAP 20 | Applying Photos |
| | | <u>or</u> | | | | and Images in Multimedia |
| | CISB 15 | Microcomputer Applications | 4.0 | CSU,UC | GRAP 28 | Digital Portfolio |
| | ELEC 50A | Electronic Circuits (DC) | 4.0 | CSU | PHOT 10 | Beginning Photography |
| | ELEC 50B | Electronic Circuits (AC) | 4.0 | CSU | PHOT 17 | Photocommunication |
| | ELEC 56 | Digital Electronics | 4.0 | CSU | | Total Units |
| | Plus the fa | llowing courses: | | | Recommended Electives: | |
| | Level II as | | | | AHIS 1 | Understanding the Visual Arts |
| IC | CNET 56 | Computer Networks | 4.0 | | | <u>or</u> |
| IC | CNET 62 | Network+ Certification | 3.0 | | ARTB 1 | Understanding the Visual Arts |
| | CHEF OF | Preparation | 5.0 | | COMP 10 | Operating the Macintosh Compu |
| | CNET 64 | Server + Certification | 3.0 | | GRAP 18 | Advanced Image Design |
| | | Preparation | | | | - 3D Modeling Techniques |
| | CNET 66 | Security + Certification | 3.0 | | GRAP 24 | Work Experience in Computer G |
| - | | Preparation | | | PHOT 1 | Laboratory Studies: |
| | TECH 60 | Customer Relations | 1.0 | | | Black and White Photography |
| | | for the Technician | | | PHOT 2 | Laboratory Studies: Color Photog |
| | | Total Units | 44.0 | 45.0 | PHOT 4 | Digital Cameras and Compositio |
| | Recommen | nded Electives: | | | | |
| | ELEC 51 | Electronic Devices | | | Computer Systems Technol Electronics and Computer | |
| | ELEC 74 | Microprocessor Systems | | | | |
| | EST 54 | Cabling and Wiring Standards | | | Technolo | ogy Department |
| | CNET 60 is | recommended for those seeking | CNET 60 is recommended for those seeking the Level I | | | |

Certificate. It is a test preparation course for the A+ certification test. CNET 62 is recommended for those seeking the Level II Certificate. It is a test preparation course for the Network+ certification test.

Computer Graphic Design/Photography Commercial and Entertainment Arts Certificate L1005

The Computer Graphics Certificate will enable the student to develop specific computer skills needed for employment subsequent to completion of the required courses. The Computer Graphics Certificate is an option under the existing Photography program. Those anticipating a Baccalaureate Degree should be guided in their selection of lower-division courses by an advisor of the catalog of the institution they expect to enter.

igital Portfolio 2.0 3.0 CSU.UC eginning Photography otocommunication 3.0 otal Units 24.0 l Electives: nderstanding the Visual Arts nderstanding the Visual Arts perating the Macintosh Computer dvanced Image Design 3D Modeling Techniques ork Experience in Computer Graphics aboratory Studies: lack and White Photography aboratory Studies: Color Photography

1.0

3.0

3.0

3.0

3.0

3.0

igital Cameras and Composition

er Systems Technology and Computer Department .0924

This curriculum is one of three advanced systems options available for those students who do not complete all advanced systems courses at once, or who complete them one at a time. The Computer Systems Technology curriculum encompasses advanced coursework in computer systems circuitry. This includes microprocessor programming codes and microprocessor interfacing circuits. Two additional certificate programs are also available: a one-year certificate in Electronics Technology and a two-year certificate with the same title as the A.S. Degree. All students completing an Electronic A.S. Degree program are automatically eligible to receive, without further examination, the N.A.R.T.E. 3rd Class Technician License, and all students completing certificate programs are automatically eligible to receive, without further examination, the N.A.R.T.E. 4th Class Technician License.

Requirements for the Certificate *Required courses:*

| neguneaco | <i>ai ses.</i> | | |
|-----------|---|------|-----|
| ELEC 11 | Technical Applications in Microcomputers | 3.0 | CSU |
| ELEC 12 | Computer Simulation and Troubleshooting | 2.0 | |
| ELEC 50A | Electronic Circuits (DC) | 4.0 | CSU |
| ELEC 50B | Electronic Circuits (AC) | 4.0 | CSU |
| ELEC 51 | Electronic Devices | 4.0 | CSU |
| ELEC 56 | Digital Electronics | 4.0 | CSU |
| ELEC 61 | Electronic Assembly and Fabrication | 2.0 | CSU |
| ELEC 74 | Microprocessor Systems | 4.0 | CSU |
| TECH 60 | Customer Relations for the Technician | 1.0 | |
| | Total Units | 28.0 | |
| | | | |

Construction Inspection

Architecture and Engineering Design Department Certificate L0920

This program is intended to prepare students for employment following completion of courses. Students desiring a Bachelor's Degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses

Requirements for the Certificate *Required courses:*

| ARCH 12 | Architectural Materials and Specifications | 3.0 | CSU |
|----------|---|--------|-----|
| ARCH 14 | Building and Zoning Codes | 3.0 | |
| INSP 17 | Legal Aspects of Construction | 3.0 | CSU |
| INSP 70 | Elements of Construction | 3.0 | CSU |
| INSP 71 | Construction Estimating | 3.0 | CSU |
| INSP 87 | Fundamentals of Construction Inspection | 3.0 | |
| MATH 51 | Elementary Algebra | 4.0 | |
| | Total Units | 22.0 | |
| Recommen | nded Electives: | | |
| ARCH 11 | Architectural Drawing | | |
| ARCH 15 | Architectural Working Drawing | s - I | |
| EDT 26 | Civil Engineering Technology ar | nd CAD | |
| INSP 67 | Reading Construction Drawings | 5 | |

Consumer Services

Consumer Science and Design Technologies Certificate L1321

This program provides semi-professional training for those who seek immediate employment with the public sector or business establishments such as finance, retail, utilities and telecommunications. Students desiring a Bachelor's Degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses.

The possession of a certificate of proficiency is favorably recognized by government, business, and industry and is frequently a requirement for professional advancement. Additional courses beyond those required will enhance student's knowledge in a specialty area. Consult with a professor of Family and Consumer Sciences for further information.

Certificate requirements state that at least half of the required number of units be taken at Mt. San Antonio College and that in each course taken toward a certificate, a grade of "C" or better must be earned. Students who are in the last semester of a certificate program must complete an Application for Certificate form, available at the Admissions and Records Office, in order to be awarded the Certificate.

Requirements for the Certificate *Required courses:*

| BUSL 18 | Business Law, or | 3.0 | CSU,UC |
|------------|------------------------------|------|--------|
| BUSL 18H | Business Law - Honors | 3.0 | CSU,UC |
| BUSM 60 | Human Relations in Business | 3.0 | CSU |
| FCS 41 | Life Management | 3.0 | CSU |
| FCS 80 | Financial Planning | 3.0 | CSU |
| | <u>or</u> | | |
| BUSA 71 | Financial Planning | 3.0 | CSU |
| FCS 91 | Work Experience in Family | 1.0 | |
| | and Consumer Sciences | | |
| | <u>or</u> | | |
| BUSL 36 | Paralegal Internship | 1.0 | |
| PLUS | | | |
| Select two | (2) courses from: | | |
| BUSO 5 | Business English | 3.0 | |
| BUSO 25 | Business Communications | 3.0 | CSU |
| COMP 12 | Office Computer Applications | 4.0 | CSU,UC |
| | <u>or</u> | | |
| CISB 15 | Microcomputer Applications | 4.0 | CSU,UC |
| | Total Units | 19.0 | - 20.0 |
| | | | |
| | | | |

Correctional Sciences Public Services Department Certificate T2103

Correctional Sciences is the application of law, social, and natural sciences to the social phenomenon of crime and delinquency. The discipline addresses definitions, causation prevention, discovery, procedures, treatment and rehabilitation, quantification, and research in both criminal and civil aspects. This program is intended to prepare students for employment following graduation. Students desiring a Bachelor's Degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses.

Requirements for the Certificate Reauired courses:

| Required courses: | | | | | | |
|-------------------|--|------------|--------|--|--|--|
| ADJU 68 | Administration of Justice Report Writing | 3.0 | | | | |
| CORS 10 | Introduction to Correctional Sciences | 3.0 3.0 | CSU | | | |
| CORS 15 | Control and Supervision of the Offender | 3.0 | | | | |
| CORS 20 | Correctional Law | 3.0 | | | | |
| CORS 25 | Probation and Parole | 3.0 | | | | |
| CORS 30 | Ethnic Relations in Corrections | 3.0 | | | | |
| PLUS | | | | | | |
| Select four | (4) courses from: | | | | | |
| ADJU 1 | The Administration of Justice System | 3.0 | CSU,UC | | | |
| ADJU 2 | Principles and Procedures of the Justice System | 3.0 | CSU | | | |
| ADJU 20 | Principles of Investigation | 3.0 | CSU | | | |
| ADJU 38 | Narcotics Investigation | 3.0 | | | | |
| ADJU 59 | Gangs in the Community/ Corrections | 3.0 | CSU | | | |
| CORS 35 | Interviewing and Counseling in Corrections | 3.0 | | | | |
| CORS 40 | Crime and Delinquency | 3.0 | | | | |
| CORS 45 | The Violent Offender | 3.0 | | | | |
| | Total Units | 30.0 | | | | |
| Recommen | Recommended Electives: | | | | | |
| PE-F 50 | Physical Skills Preparation | | | | | |

for Law Enforcement and Fire Science

Spanish for Fire and Police Personnel

Fitness and Conditioning for Law Enforcement,

Agility Testing Preparation for Law Enforcement and Fire Science

Fire Science and Forestry

PE-F 51

PE-F 52

SPAN 66

Educational Paraprofessional - Level II

Psychology and Education Department Certificate T2188

This certificate program in the field of education prepares paraprofessionals in a variety of areas, emphasizing working with children to enhance their learning and development. Students will be able to assist classroom teachers in working with children of all ages and backgrounds, including students with special needs. This certificate provides graduates with skills in math and English, as well as understandings in learning and teaching styles. It may be used as eligibility for position advancement

Requirements for the Certificate *Required courses:*

Completion of the Educational Paraprofessional - Level I course work (13 units) as follows:

| CHLD 1 | Child, Family and Community | 3.0 | CSU,UC |
|---------------|-----------------------------------|--------|----------|
| EDUC 10 | Introduction to Education | 3.0 | CSU,UC |
| ENGL 68 | English - Writing | 3.0 | |
| MATH 51 | Elementary Algebra | 4.0 | |
| Plus the fo | llowing courses: | | |
| Level II as f | follows: | | |
| CHLD 68 | Children With Special Needs | 3.0 | CSU |
| EDUC 16 | Aspects and Issues | 3.0 | CSU,UC |
| | in Teaching Service Learning | | |
| ENGL 1A | Freshman Composition | 3.0 | CSU,UC |
| MATH 71 | Intermediate Algebra | 5.0 | |
| PSYC 14 | Developmental Psychology, or | 3.0 | CSU,UC |
| CHLD 10 | Child Growth and Development | 3.0 | CSU,UC |
| | Total Units | 30.0 | |
| Recommen | ded Electives: | | |
| CHLD 51 | Early Literacy in Child Developm | ent | |
| CHLD 64 | Health, Safety and Nutrition of Y | oung (| Children |
| LIT 40 | Children's Literature | - | |
| PE 3 | First Aid and CPR | | |
| | | | |
| | | | |

Electronic Systems Technology - Level II

Electronics and Computer Technology Department Certificate L0928

The Level II certification (12-13 units) adds customer relations skills and the installation, calibration, setup maintenance and troubleshooting of home theater, home automation, and home security systems. Either a course on preparing for the C-7 license or troubleshooting digital TV with LCD, plasma and DLP video displays is included.

Requirements for the Certificate Required courses:

| neguireu ci | Juises. | | | | | |
|-------------|--|---------------|--|--|--|--|
| ELEC 11 | Technical Applications in Microcomputers | 3.0 CSU | | | | |
| | <u>or</u> | | | | | |
| CISB 15 | Microcomputer Applications | 4.0 CSU,UC | | | | |
| EST 50 | Electrical Fundamentals for Cable Installations | 4.0 | | | | |
| EST 52 | Fabrication Techniques for Cable Installations | 4.0 | | | | |
| EST 54 | Cabling and Wiring Standards | 4.0 | | | | |
| Plus the fo | llowing courses: | | | | | |
| EST 56 | Home Theater, | 4.0 | | | | |
| | Home Integration, & Home Sec | urity Systems | | | | |
| EST 62 | Electronic Troubleshooting - I | 4.0 | | | | |
| TECH 60 | Customer Relations | 1.0 | | | | |
| | for the Technician | | | | | |
| PLUS | | | | | | |
| Select one | (1) course from: | | | | | |
| EST 64 | Electronic Troubleshooting - II | 4.0 | | | | |
| EST 70 | C-7 Low Voltage Systems | 2.0 | | | | |
| | License Preparation | | | | | |
| | Total Units | 26.0 - 29.0 | | | | |
| Recommen | Recommended Electives: | | | | | |
| ELEC 61 | Electronic Assembly and Fabrica | ation | | | | |
| | | | | | | |

ELEC 62 Advanced Surface Mount Assembly and Rework

Electronics and Computer - Engineering Technology Electronics and Computer Technology Department Certificate T0906

This curriculum starts with basic electronic components and circuitry, culminates with course work in electronic systems, and is characterized by advanced coursework in three major areas. These include microprocessors and interfacing, electronic communications and industrial electronic controls. Students completing the program will have training in all the major areas of electronics and will possess ample skills to make them versatile employees. Nearly all labs have new, state-of-the-art equipment to provide the student with quality hands-on learning experiences.

This program is intended to prepare students for employment in electronic industries or for transfer into electronic and computer engineering technology or industrial technology programs at various institutions in the CSU system. Many of the courses directly articulate to courses offered at the CSUs. The certificate prepares students for the following positions: field service technician, field engineer, computer service technician, customer service technician, communications technician. All students completing a certificate program are automatically eligible to receive, without further examination, the N.A.R.T.E. 4th Class Technician License.

Requirements for the Certificate *Required courses:*

| ELEC 11 | Technical Applications in Microcomputers | 3.0 | CSU |
|----------|---|------|-----|
| ELEC 12 | Computer Simulation and Troubleshooting | | 2.0 |
| ELEC 50A | Electronic Circuits (DC) | 4.0 | CSU |
| ELEC 50B | Electronic Circuits (AC) | 4.0 | CSU |
| ELEC 51 | Electronic Devices | 4.0 | CSU |
| ELEC 53 | Communications Circuits | 4.0 | |
| ELEC 54A | Industrial Electronics | 4.0 | CSU |
| ELEC 54B | Industrial Electronic Systems | 3.0 | CSU |
| ELEC 55 | Microwave Communications | 4.0 | |
| ELEC 56 | Digital Electronics | 4.0 | CSU |
| ELEC 61 | Electronic Assembly and Fabrication | 2.0 | CSU |
| ELEC 74 | Microprocessor Systems | 4.0 | CSU |
| TECH 60 | Customer Relations for the Technician | 1.0 | |
| | Total Units | 43.0 | |

Recommended Electives:

- CISP 11 Programming in Visual Basic
- EDT 11 Technical Engineering Drawing I ELEC 62 Advanced Surface Mount Assembly
- and Rework
- ELEC 76 Radio Telephone Communications PHYS 2AG General Physics

Electronics Communications Electronics and Computer

Technology Department Certificate T0904

This curriculum is one of three advanced systems options available for those students who do not complete all advanced systems courses at once, or who complete them one at a time. The Electronics Communications curriculum encompasses advanced coursework in electronics communications. This includes both land-based and wireless forms of communications. The circuitry includes both analog and digital forms of communications (AM/FM, SSB, PAM, PPM, PWM, PCM, etc.). Analog and digital multiplexing is also covered. The curriculum culminates with microwave communications coursework that includes radar, PCS, GPS, and satellite operations.

Two additional certificate programs are also available; a one-year certificate in Electronics Technology, and a twoyear certificate having the same title as the A.S. Degree. All students completing an Electronic A.S. Degree program are automatically eligible to receive, without further examination, the N.A.R.T.E. 3rd Class Technician License, and all students completing certificate programs are automatically eligible to receive, without further examination, the N.A.R.T.E. 4th Class Technician License.

Requirements for the Certificate Required courses: ELEC 11 Technical Applications 3.0 (SU

| ELEC 11 | lechnical Applications | 3.0 | CSU |
|----------|--|--------|-----|
| | in Microcomputers | 2.0 | |
| ELEC 12 | Computer Simulation and Troubleshooting | 2.0 | |
| | 5 | | |
| ELEC 50A | Electronic Circuits (DC) | 4.0 | CSU |
| ELEC 50B | Electronic Circuits (AC) | 4.0 | CSU |
| ELEC 51 | Electronic Devices | 4.0 | CSU |
| ELEC 53 | Communications Circuits | 4.0 | |
| ELEC 55 | Microwave Communications | 4.0 | |
| ELEC 56 | Digital Electronics | 4.0 | CSU |
| ELEC 61 | Electronic Assembly | 2.0 | CSU |
| | and Fabrication | | |
| TECH 60 | Customer Relations for the Techr | nician | 1.0 |
| | Total Units | 32.0 | |
| | | | |

Electronics Technology

Electronics and Computer Technology Department Certificate L0905

This one-year program is designed for the person requiring background in the basic core courses of electronic technology without an area of specialization. The core courses provide the necessary skills for entry- level employment as an electronic technician and include customer relations training.

Requirements for the Certificate *Required courses:*

| neguneu courses. | | | | | |
|------------------|---|------|-----|--|--|
| ELEC 11 | Technical Applications in Microcomputers | 3.0 | CSU | | |
| ELEC 50A | Electronic Circuits (DC) | 4.0 | CSU | | |
| ELEC 50B | Electronic Circuits (AC) | 4.0 | CSU | | |
| ELEC 51 | Electronic Devices | 4.0 | CSU | | |
| ELEC 56 | Digital Electronics | 4.0 | CSU | | |
| ELEC 61 | Electronic Assembly and Fabrication | 2.0 | CSU | | |
| TECH 60 | Customer Relations for the Technician | 1.0 | | | |
| | Total Units | 22.0 | | | |
| | | | | | |

Electronics: Industrial Systems Electronics and Computer Technology Department Certificate T0908

This curriculum is one of three advanced systems options available for those students who do not complete all advanced systems courses at once, or who complete them one at a time. This certificate encompasses advanced coursework in industrial electronics. This includes electronic devices for industrial controls and motor controls. The curriculum culminates in programmable logic controls using the Allen Bradley series of PLCs running Windows ladder logic software.

Two additional certificate programs are also available: a one-year certificate in Electronics Technology and a twoyear certificate having the same title as the A.S. Degree. All students completing an Electronics A.S. Degree program are automatically eligible to receive, without further examination, the N.A.R.T.E. 3rd Class Technician License, and all students completing certificate programs are automatically eligible to receive, without further examination, the N.A.R.T.E. 4th Class Technician License.

Requirements for the Certificate *Required courses:*

ELEC 11 Technical Applications 3.0 CSU in Microcomputers

| ELEC 12 | Computer Simulation and Troubleshooting | 2.0 | |
|----------|--|------|-----|
| ELEC 50A | Electronic Circuits (DC) | 4.0 | CSU |
| ELEC 50B | Electronic Circuits (AC) | 4.0 | CSU |
| ELEC 51 | Electronic Devices | 4.0 | CSU |
| ELEC 54A | Industrial Electronics | 4.0 | CSU |
| ELEC 54B | Industrial Electronic Systems | 3.0 | CSU |
| ELEC 56 | Digital Electronics | 4.0 | CSU |
| ELEC 61 | Electronic Assembly and Fabrication | 2.0 | CSU |
| TECH 60 | Customer Relations for the Technician | 1.0 | |
| | Total Units | 31.0 | |

Emergency Medical Technician - Paramedic (EMT-P) Medical Services Department

Certificate T1281

This Paramedic Program is accredited by CAAHEP (Committee on Accreditation of Allied Health Education Programs) and approved by the Los Angeles County Department of Health Services as meeting and exceeding the minimum standards as specified in Title 22 of the California Code of Regulations and the federal Department of Transportation national standard curriculum. It is designed to train paramedics to work on ambulances and in the fire service.

The Emergency Medical Technician-Paramedic (EMT-P) is an individual who is educated and trained during an intensive (32-hours per week) didactic program lasting 16 weeks. This is followed by five (5) weeks of Clinical Internship in a hospital (40-hours per week), and then eight (8) weeks of Field Externship as a practicing Paramedic under the guidance and supervision of a Paramedic Field Preceptor.

Requirements for the Certificate *Required courses:*

| EMS 1 | Fundamentals for Paramedics | 4.0 |
|--------|-------------------------------|------|
| EMS 10 | Anatomy and Physiology | 2.0 |
| | for Paramedics | |
| EMS 20 | Emergency Cardiac Care | 1.0 |
| | for Paramedics | |
| EMS 30 | Pharmacology for Paramedics | 2.0 |
| EMS 40 | Cardiology for Paramedics | 5.0 |
| EMS 50 | Paramedic Skills Competency | 4.5 |
| EMS 60 | EMS Theory for Paramedics | 8.5 |
| EMS 70 | Paramedic Clinical Internship | 3.5 |
| EMS 80 | Paramedic Field Externship | 8.5 |
| | Total Units | 39.0 |

Recommended Electives:

- ADJU 1 The Administration of Justice System
- FIRE 1 Fire Protection Organization
- PSYC 1A Introduction to Psychology
- SOC 1 Sociology

The Emergency Medical Services faculty recommend that you complement your studies with selected elective courses chosen from the list above. You should meet with a professor of Emergency Medical Services to help you determine which of those electives would best suit your career plans.

Special Information:

To remain in the program, students must maintain a grade of "C" (80 percent) or better in all courses and receive a grade of "C" (80 percent) or better on all final exams, per state regulations. Before starting in clinical rotations, students must pass a criminal background check.

Upon successful completion of the required courses, students are given a certificate documenting completion of the Emergency Medical Technician - Paramedic (EMT-P) program. Students are then eligible for licensure by taking and passing both the National Registry Exam and County Paramedic accreditation exam.

Application Requirements and Selection Procedures

Application Requirements:

In addition to meeting the Mt. San Antonio College's academic standards for admission, applicants must be in good standing and satisfy the following requirements:

- 1) Be an EMT-I, currently certified in California.
- Submit a letter on official stationery from a recognized EMS agency verifying completion of six (6) months of pre-hospital field experience as an EMT-I (approximately 1,200 hours) within the last 2 years.
- 3) File a College application and be accepted as a student at Mt. San Antonio College.
- 4) Submit an application for the Paramedic Program to the Health Science Programs Office (909) 594-5611, Ext. 4750. All applications are dated upon receipt in the Health Science Programs Office. The Paramedic Program begins three (3) times per year, in August, January, and May and runs for 29 weeks.

- 5) Take the AWE (Assessment of Written English), the Mt. SAC Math Placement Test, and the Degrees of Reading Power reading test at least 10 working days before the start of the pre-course (EMS 1). Placement examinations will be individually assessed to determine eligibility. The placement test is administered by the Assessment Center, located in the Student Services Center. If required, arrange with the Center a day and time to take the examination. The Assessment Center (909) 594-5611, Ext. 4265 is open Monday through Friday.
- 6) Successful completion of EMS 1 Fundamentals for Paramedics.
- 7) Forward two (2) official transcripts of all coursework completed (high school, EMT-I, Fire Science, and college work other than Mt. San Antonio College courses). One transcript must be sent to the Health Science Programs Office; the other to the Admissions and Records Office.

For students who possess a college degree, the English placement examination is not required. However, it will be necessary for students to obtain two (2) official copies of the college transcript showing the degree issued. One official transcript must be sent to the Health Science Programs Office; the other to the Admissions and Records Office.

NOTE: If the course(s) were taken and/or the degree obtained at Mt. San Antonio College, it is not necessary to request transcripts.

EXAMPLE: Mt. San Antonio College Technology and Health Division 1100 North Grand Avenue Walnut CA 91789-1399

8) A physical examination, proof of certain immunizations, and a criminal background check are required of all candidates after acceptance to the program and before entrance into the clinical setting. Forms and information will be provided upon acceptance into the program. In addition, drug testing may be required as part of the physical examination and/or requested by the college or one of its agents.

Entrance Procedure:

In determining eligibility, consideration will be given to the following:

- 1) Completion of all application requirements
- 2) EMS-related experience
- 3) Scores on the English assessment and math placement tests

4) Performance in the pre-course, EMS 1— Fundamentals for Paramedics. This course tests prerequisite knowledge base in medical terminology, anatomy and physiology, EMT basic knowledge and basic math skills in preparation for drug calculations.

All Applicants are required to meet the Essential Functions for Success in the Paramedic Program: anatomy and physiology, EMT basic knowledge and basic math skills in preparation for drug calculations.

Physical Demands:

- Perform prolonged, extensive, or considerable standing/walking, lifting positioning, pushing, and/or transferring patients
- Possess the ability to perform fine motor movements with hands and fingers
- Possess the ability for extremely heavy effort (lift and carry at least 125 pounds)
- Perform considerable reaching, stooping, bending, kneeling, and crouching

Sensory Demands:

- <u>Color vision</u>: ability to distinguish and identify colors (may be corrected with adaptive devices)
- <u>Distance vision</u>: ability to see clearly 20 feet or more *Depth perception: ability to judge distance and space relationships
- Near vision: ability to see clearly 20 inches or less
- Hearing: able to recognize a full range of tones

Working Environment:

- May be exposed to infectious and contagious disease, without prior notification
- Regularly exposed to the risk of blood borne diseases
- Exposed to hazardous agents, body fluids and wastes
- Exposed to odorous chemicals and specimens
- Subject to hazards of flammable, explosive gases
- Subject to burns and cuts
- Contact with patients having different religious, culture, ethnicity, race, sexual orientation, psychological and physical disabilities, and under a wide variety of circumstances
- Handle emergency or crisis situations
- Subject to many interruptions
- Requires decisions/actions related to end of life issues
- Exposure to products containing latex

| English Language Skills: | | | Tochnology | EDT 12 | Technical Engineering Drawing | | CHLD 5 | Principles/Practices | | CSU |
|--|-----------------------------|--|--|-----------------------------------|--|--------------------|--------------------|--|------|------------|
| Although proficiency in English is not a criteria for admission into the nursing program, students are | " -I | ngineering Design T Level II | 57 | EDT 14 | Mechanical Design - Geometric Dimensioning and | | CHLD 6 | in Child Development Programs Survey of Child Development | | CSU |
| encouraged to be able to speak, write and read Er complete classes successfully and to ensure safety | / for De | rchitecture and Engineeri esign Department ertificate T0915 | ng | EDT 16 | Basic CAD and Computer Applications | 4.0 CSU | CHLD 10 | Curriculum Child Growth and Development | 3.0 | CSU,L |
| themselves and for others. | Th | ne Engineering Design Technolog | | EDT 18 MFG 11 | Engineering CAD Applications Manufacturing Processes I | 4.0 CSU 2.0 CSU | CHLD 10H | <u>or</u> Child Growth and Development | 3.0 | CSU,L |
| Engineering Design Technology - Level I | y ex | esigned to provide focused techr kposes students to parametric de ertificate enables students to pur | sign technology. This | ELEC 50A | <u>or</u> Electronic Circuits (DC) | 4.0 CSU | CHLD 92 | - Honors Family Child Care | 3.0 | I |
| Architecture and Engineering Design Department | em | mployment in the technical designed. | | Required Level II as | | | Plus the fo | b llowing courses: Health, Safety and Nutrition | 3.0 | CSU |
| Certificate L0900 The Engineering Design Technology Level I Certifica designed to prepare students for entry-level emplo in the technical and computer-aided drafting desig | oyment In fields. | equirements for the Cer equired courses: evel I as follows: | | EDT 20 EDT 24 | Technical Descriptive Geometry Engineering CAD 3-D Solids and Surfaces | 3.0 CSU | CHLD 68 CHLD 84 | of Young Children Children With Special Needs Guidance and Discipline in Child Development Settings | | CSU CSU |
| Upon completion of the Level I Certificate, students prepared in fundamental working practices related technical design field. | s will be ED I to the ED | · · · · | g Drawing I 3.0 CSU g Drawing II 3.0 CSU 3.0 CSU | ELEC 50B MFG 11 | Electronic Circuits (AC) Manufacturing Processes I <u>or</u> | 4.0 CSU 2.0 CSU | PLUS Select one | (1) course from: | | |
| Requirements for the Certificate | | J | oning and Tolerancing | ELEC 50A | Electronic Circuits (DC) | 4.0 CSU | CHLD 50 | Multicultural Education: Anti-Bias Perspective | 3.0 | |
| Required courses:EDT 11Technical Engineering Drawing I3.0 | CSU | Applications DT 18 Engineering CAD App | | EDT 26 | ollowing courses: Civil Engineering Technology | 3.0 CSU | CHLD 66 | Early Childhood Development Observation | 2.0 | CSU |
| EDT 12Technical Engineering Drawing II 3.0EDT 14Mechanical Design3.0 | | IFG 11 Manufacturing Proce | | EDT 28 | and CAD Engineering CAD 3-D | 3.0 CSU | CHLD 66L | Early Childhood Development Observation Laboratory | 1.0 | CSU |
| - Geometric Dimensioning and Toleran EDT 16 Basic CAD and Computer 4.0 | ncing CSU ELI | LEC 50A Electronic Circuits (DC | .) 4.0 CSU | | Illustration/Animation Total Units | 37.0 - 41.0 | CHLD 72 | Teacher, Parent and Child Relationships | 3.0 | |
| Applications EDT 18 Engineering CAD Applications 4.0 | | <i>lus the following courses:</i> DT 20 Technical Descriptive | Geometry 3.0 CSU | Escrov | v Management | | CHLD 73 | Infant/Toddler Care and Development | 3.0 | CSU |
| PLUS | ED | DT 24 Engineering CAD 3-D and Surfaces | Solids 3.0 CSU | Business Certifica | Administration Departme | ent | | Total Units | 25.0 | I |
| MFG 11 Manufacturing Processes I 2.0 | CSU MF | LEC 50B Electronic Circuits (AC IFG 11 Manufacturing Proce <u>or</u> EC 50A Electronic Circuits (DC | sses I 2.0 CSU | Require Required of BUSA 11 | ments for the Certificate courses: Fundamentals of Accounting | 3.0 | | n Design - Level I er Science and Design Tech te L1397 | nolo | gies |

Special Information:

Students interested in pursuing transfer and a Bachelor's Degree in Engineering or Engineering Technology are advised to verify with each transfer institution specific requirements for transfer and appropriate courses. Requirements vary depending on specialty and institution and may include areas such as math at the levels of calculus or trigonometry at a minimum. See the Mt. SAC catalog under either Engineering or Surveying for a list of transferable engineering courses.

| Engineering Design Technology |
|--------------------------------------|
| - Level III |
| Analytic struct and English and an |

Electronic Circuits (DC)

4.0 CSU

31.0 - 35.0

BUSR 50

BUSR 51

BUSR 76

BUSR 77

CISB 15

Real Estate Principles

Escrow Procedures I

Escrow Procedures II

Total Units

Family Child Care

Child Development

Certificate L1316

business in the home.

Reauired courses:

CHLD 1

Legal Aspects of Real Estate

Microcomputer Applications

The Family Child Care Certificate provides the information

necessary for operating or owning a family child care

Child, Family and Community

Requirements for the Certificate

Architecture and Engineering **Design Department**

Total Units

Certificate T0916

ELEC 50A

The Engineering Design Technology Level III Certificate focuses on the civil and structural design fields, emphasizing three-dimensional illustration and animation. This certificate allows students to pursue employment in the civil design fields.

Requirements for the Certificate Required courses:

Level I as follows:

EDT 11 Technical Engineering Drawing I 3.0 CSU

| Certificate L1397 |
|--|
| The Fashion Design: Level I Certificate is designed to |
| introduce the student to the employment opportunities |
| available in both fashion design and costume design. Upon |
| completion of the Fashion Design: Level I Certificate, |
| students may qualify for an entry-level design and pattern |
| making positions in Southern California's diverse apparel |

making p arel industry and the entertainment industry that support the largest number of employees and contributes significantly to the economy of the region.

Requirements for the Certificate Required courses:

3.0 CSU

4.0 CSU,UC

3.0 CSU.UC

3.0

3.0

3.0

19.0

| FASH 8 | Introduction to Fashion | 3.0 | CSU |
|---------|-------------------------------|---|---|
| FASH 10 | Clothing Construction I | 3.0 | CSU |
| FASH 12 | Clothing Construction II | 3.0 | CSU |
| FASH 15 | Fashion Strategies | 3.0 | CSU |
| FASH 20 | Illustration for Fashion | 3.0 | |
| | and Costume Design | | |
| | FASH 10 FASH 12 FASH 15 | FASH 10Clothing Construction IFASH 12Clothing Construction IIFASH 15Fashion StrategiesFASH 20Illustration for Fashion | FASH 10Clothing Construction I3.0FASH 12Clothing Construction II3.0FASH 15Fashion Strategies3.0FASH 20Illustration for Fashion3.0 |

| Programs | of | Study | Leading | to | а | Certificate |
|----------|----|-------|---------|----|---|-------------|
|----------|----|-------|---------|----|---|-------------|

| FASH 21 | Patternmaking I | 3.0 CSU |
|---------|---|---------|
| FASH 22 | Fashion Design By Draping | 3.0 |
| FASH 23 | Patternmaking II | 3.0 |
| FASH 30 | Fashion Design and Product Development I | 3.0 |
| | Total Units | 27.0 |

Fashion Design - Level II Consumer Science and Design Technologies Certificate T1389

The Fashion Design: Level II Certificate builds upon the Level I Certificate to provide students with intermediate skills that will enhance their Fashion Design careers. Students will have a strategic view of historic costume research, and textile attributes and characteristics. Students will be exposed to additional categories and classifications of apparel and will further research and design products for divergent target markets. Students will prepare professional portfolios to strengthen career perspectives. Completion of the Fashion Design: Level II Certificate will lead to new opportunities and provide students with a solid foundation upon which to build a career.

Requirements for the Certificate Required courses: Level | as follows:

FASH 8 Introduction to Fashion 3.0 CSU FASH 10 3.0 CSU Clothing Construction I FASH 12 **Clothing Construction II** 3.0 CSU FASH 15 Fashion Strategies 3.0 CSU Illustration for Fashion FASH 20 3.0 and Costume Design 3.0 CSU FASH 21 Patternmaking I FASH 22 Fashion Design By Draping 3.0 FASH 23 Patternmaking II 3.0 FASH 30 Fashion Design 3.0 and Product Development I

Plus the following courses:

| - | | | |
|---------|---|------|--------|
| | Total Units | 39.0 | |
| FASH 32 | Fashion Design and Product Development III | 3.0 | |
| | and Product Development II | | |
| FASH 31 | Fashion Design | 3.0 | |
| FASH 17 | Textiles | 3.0 | CSU,UC |
| FASH 9 | History of Costume and Fashion | 3.0 | CSU |

Recommended Electives:

FASH 24 Fashion Patternmaking by Computer FASH 25 Fashion Computer-Assisted Drawing

FASH 90 Field Studies

| FASH 91 | Field Studies - New York |
|---------|----------------------------------|
| FASH 92 | Field Studies - Fashion Capitals |

Fashion Merchandising - Level II Consumer Science and Design Technologies Certificate L1303

The Fashion Merchandising Level II Certificate is designated to build upon the Fashion Merchandising - Level I Certificate to provide students with proven business and management tools that will increase their practical understanding of merchandising and marketing. Students will be exposed to projects and visual display simulations that will enhance their merchandising and management career potential.

Completion of the Fashion Merchandising - Level I course work (15 units) as follows:

Requirements for the Certificate Required courses:

Level I as follows:

| Leventusto | | | |
|---------------|--|------|--------|
| FASH 8 | Introduction to Fashion | 3.0 | CSU |
| FASH 10 | Clothing Construction I | 3.0 | CSU |
| FASH 15 | Fashion Strategies | 3.0 | CSU |
| FASH 17 | Textiles | 3.0 | CSU,UC |
| FASH 30 | Fashion Design and Product Development I | 3.0 | |
| Plus the fo | llowing courses: | | |
| Level II as i | follows: | | |
| FASH 9 | History of Costume and Fashion | 3.0 | CSU |
| FASH 62 | Retail Store Management and Merchandising, | 3.0 | CSU |
| | <u>or</u> | | |
| BUSS 50 | Retail Store Management and Merchandising | 3.0 | CSU |
| FASH 63 | Advertising and Promotion | 3.0 | CSU |
| | <u>or</u> | | |
| BUSS 33 | Advertising and Promotion | 3.0 | CSU |
| FASH 66 | Visual Merchandising Display | 3.0 | CSU |
| | Total Units | 27.0 | |
| Recommen | ded Electives: | | |
| FASH 25 | Fashion Computer-Assisted Drav | wing | |
| FASH 26 | Fashion Computer Assisted Desi | gn | |
| FASH 81 | Work Experience in Fashion | | |
| FASH 90 | Field Studies | | |
| FASH 91 | Field Studies - New York | | |
| FASH 92 | Field Studies - Fashion Capitals | | |
| | | | |
| | | | |

| | hnology | | | Horse |
|-------------|---|-------------|-----------|--------------------|
| | nology Department | | | Agricult |
| Certificat | e L2105 ence Certificate has been develor | | " | Certifica |
| pre-employ | | This certif | | |
| | | All course | | |
| | nter the field of fire science. It als refighter an opportunity for a pr | | | |
| | itudents intending to pursue a B | | | Require |
| | nsfer program) should consult wi | | | Required |
| | o discuss transferability of course | | | AGAB 20 |
| Requiren | nents for the Certificate | | | AGAG 59 |
| Required co | urses: | | | AGAN 2 |
| FIRE 1 | Fire Protection Organization | 3.0 | CSU | AGAN 2 AGAN 94 |
| FIRE 2 | Fire Prevention Technology | 3.0 | CSU | AGAN 94 AGLI 16 |
| FIRE 3 | Fire Protection Equipment | 3.0 | CSU | AULI IU |
| | and Systems | | | AGLI 18 |
| FIRE 4 | Building Construction | 3.0 | CSU | AGLI 18 AGLI 19 |
| | for Fire Protection | | | AGLI 19 AGLI 96 |
| FIRE 5 | Fire Behavior and Combustion | 3.0 | CSU | AGLI 90 |
| FIRE 6 | Hazardous Materials/ICS | 3.0 | | AGLI 97 |
| PLUS | | | | |
| Select two | (2) courses from: | | | |
| FIRE 7 | Fire Fighting Tactics and Strateg | y 3.0 | CSU | |
| FIRE 8 | Fire Company Organization | 3.0 | CSU | Hospi |
| | and Management | | | Consum |
| FIRE 9 | Fire Hydraulics | | CSU | Certifica |
| FIRE 10 | Arson and Fire Investigation | 3.0 | CSU | The Hospi |
| FIRE 11 | Fire Apparatus and Equipment | 3.0 | | for caterin |
| FIRE 12 | Wildland Fire Control | 4.0 | CSU | hospitalit |
| FIRE 86 | Basic Fire Academy | 12.0 | | planning, |
| PE-F 53 | Physical Training | 2.5 | CSU | managen |
| | for the Basic Fire Academy | | | Require |
| | Total Units | 23.5 | - 34.0 | Required |
| | ded Electives: | | | HRM 51 |
| PE-F 50 | Physical Skills Preparation for A | dminis | tration | HRM 52 |
| | of Justice and Fire Technology | | | HRM 53 |
| PE-F 51 | Agility Testing Preparation for A of Justice and Fire Technology | dminis | stration | 11111135 |
| PE-F 52 | Fitness and Conditioning for Ad | minist | ration of | HRM 54 |
| 12132 | Justice, Fire Technology, and For | | | HRM 61 |
| SPAN 66 | Spanish for Fire and Police Perso | | | HRM 62 |
| 21711100 | opanish for the unu tonce fels | | | HRM 91 |
| | | | | NF 20 |
| | | | | 111 20 |
| | | | | 1 |

Horse Ranch Management Agricultural Sciences Department Certificate L0102

his certificate program is designed to give students basic kills on horse ranches and agriculture sales and services. Il courses are applicable for degree requirements.

Requirements for the Certificate Required courses:

| equireu co | uises. | |
|------------|---|-------------|
| GAB 20 | Microcomputer Applications in Agriculture | 3.0 CSU,UC |
| GAG 59 | Work Experience in Agriculture | 1.0 - 4.0 |
| GAN 2 | Animal Nutrition | 3.0 CSU |
| GAN 94 | Animal Breeding | 3.0 |
| GLI 16 | Horse Production | 4.0 CSU,UC |
| | <u>or</u> | |
| GLI 18 | Horse Ranch Management | 4.0 CSU |
| GLI 19 | Horse Hoof Care | 2.0 CSU |
| GLI 96 | Animal Sanitation | 3.0 CSU |
| | and Disease Control | |
| GLI 97 | Artificial Insemination of Livestock | 2.0 |
| | Total Units | 21.0 - 24.0 |
| | | |

Hospitality: Catering

Consumer Science and Design Technologies Certificate L1395

The Hospitality: Catering Certificate will prepare students for catering and banquet job opportunities in the hospitality industry. The program emphasizes menu planning, food preparation, service and catering management.

Requirements for the Certificate Required courses:

| - | | | |
|--------|--|------|-----|
| HRM 51 | Introduction to Hospitality | 3.0 | CSU |
| HRM 52 | Food Safety and Sanitation | 1.5 | CSU |
| HRM 53 | Dining Room Service Management | 3.0 | CSU |
| HRM 54 | Basic Cooking Techniques | 3.0 | CSU |
| HRM 61 | Menu Planning | 3.0 | CSU |
| HRM 62 | Catering | 3.0 | CSU |
| HRM 91 | Work Experience in Restaurant/Hospitality | 1.0 | CSU |
| NF 20 | Principles of Foods With Lab | 3.0 | CSU |
| | Total Units | 20.5 | |
| | | | |

| Manage Consume Certificate This certificate | ement - Level II r Science and Design Techr e L1325 ate prepares the holder to enter th anager-trainee in a hotel or restau | ie hos | | сн сн сн |
|--|---|--------|-----|----------------|
| Requiren | nents for the Certificate | | | CH |
| Required co | urses: | | | |
| HRM 51 | Introduction to Hospitality | 3.0 | CSU | CH |
| HRM 53 | Dining Room Service | 3.0 | CSU | |
| | Management | | | CH |
| HRM 56 | Management of Hospitality | 3.0 | CSU | |
| | Personnel and Operations | | | CH |
| HRM 64 | Hospitality Financial Accounting | 13.0 | CSU | PL |
| HRM 66 | Hospitality Law | 3.0 | CSU | Sel |
| HRM 70 | Introduction to Lodging | 3.0 | CSU | СН |
| HRM 91 | Work Experience | 1.0 | CSU | |
| | in Restaurant/Hospitality | | | СН |
| | Total Units | 19.0 | | |
| | | | | |

Hospitality: Restaurant Management - Level II

Hospitality: Hospitality

Consumer Science and Design Technologies Certificate L1319

The Hospitality: Restaurant Management - Level II Certificate prepares the holder to enter the restaurant field as a manager-trainee in a in a food service establishment.

Requirements for the Certificate Required courses:

| | Total Units | 19.5 | , , |
|--------|-----------------------------|------|--------|
| NF 28 | Cultural and Ethnic Foods | 3.0 | CSU,UC |
| HRM 61 | Menu Planning | 3.0 | CSU |
| HRM 57 | Restaurant Cost Control | 3.0 | CSU |
| HRM 54 | Basic Cooking Techniques | 3.0 | CSU |
| | Management | | |
| HRM 53 | Dining Room Service | 3.0 | CSU |
| HRM 52 | Food Safety and Sanitation | 1.5 | CSU |
| HRM 51 | Introduction to Hospitality | 3.0 | CSU |

Infant/Toddler Development **Child Development** Certificate T1318

AR The Infant/Toddler Certificate (30 units) provides the holder with specialized skills for working with children of that age. AR This certificate meets or exceeds Title 22 requirements and Title 5 Master Teacher - Infant/Toddler Specialization (with 16 units of general education).

| Require Required of | ments for the Certificate | | |
|------------------------|---|------|--------|
| CHLD 1 | Child, Family and Community | 3.0 | CSU,UC |
| CHLD 5 | HLD 5 Principles/Practices in Child Development Programs | | CSU |
| CHLD 6 | Survey of Child Development Curriculum | | CSU |
| CHLD 10 | Child Growth and Development or | 3.0 | CSU,UC |
| CHLD 10H | CHLD 10H Child Growth and Development - Honors | | CSU,UC |
| CHLD 73 | CHLD 73 Infant/Toddler Care and Development | | CSU |
| CHLD 85 | Infants At Risk | 3.0 | |
| PLUS | | | |
| Select four | r (4) courses from: | | |
| CHLD 50 | Multicultural Education: Anti-Bias Perspective | 3.0 | |
| CHLD 61 | Language Arts & Art Media for Young Children | 3.0 | |
| CHLD 62 | Music and Motor Development for Young Children | 3.0 | CSU |
| CHLD 64 | Health, Safety and Nutrition of Young Children | 3.0 | CSU |
| CHLD 72 | Teacher, Parent and Child Relationships | 3.0 | |
| | Total Units | 30.0 | |

Interior Design - Kitchen And Bath Design

Consumer Science and Design Technologies Certificate T1302 This Mt. SAC Kitchen and Bath Design Certificate program provides for immediate opportunity to seek employment in the area of Kitchen and Bath Design. This certificate program is endorsed by the National Kitchen and Bath

Association. Students completing all courses for this certificate will earn four (4) NKBA credits toward eligibility for professional certification as a Certified Kitchen Designer or Certified Bath Designer. Please see a professor of Interior Design or contact the NKBA for professional certification eligibility requirements beyond this program.

Requirements for the Certificate Reauired courses:

| ARCH 11 | Architectural Drawing | 3.0 | CSU,UC |
|---------|--------------------------|-----|--------|
| ARCH 15 | Architectural Working | 3.0 | CSU |
| | Drawings - I | | |
| ARCH 16 | Basic CAD | 4.0 | CSU,UC |
| | and Computer Application | | |

| ID 100 | Fundamentals of Interior Design | 3.0 | CSU |
|----------------|--|------|-----|
| ID 105 | Interior Design Studio I | 2.0 | CSU |
| ID 130 | Applied Color and Design Theory | 4.0 | CSU |
| ID 150 | Interior Materials and Products | 4.0 | CSU |
| ID 170 | Space Planning | 3.0 | CSU |
| ID 180 | History of Interior Architecture & Furnishings I | 3.0 | CSU |
| ID 190 | History of Interior Architecture & Furnishings II | 3.0 | CSU |
| ID 210 | Fundamentals of Lighting | 3.0 | |
| ID 215 | Interior Design Studio II | 2.0 | CSU |
| ID 230 | Business and Professional Practice | 3.0 | |
| ID 240A | Interior Design Internship Seminar | 1.0 | |
| | and | | |
| ID 240B | Interior Design Internship | 1.0 | |
| ID 240C | Interior Design/Kitchen & Bath Internship | 2.0 | |
| ID 250 | Codes and Specifications for Interior Design | 2.0 | CSU |
| ID 265 | Interior Design Studio III - Kitchens | 2.0 | |
| ID 275 | Interior Design Studio IV - Bath Design | 2.0 | CSU |
| INSP 70 | Elements of Construction | 3.0 | CSU |
| INSP 71 | Construction Estimating | 3.0 | CSU |
| | - | 56.0 | |
| Recommend | ded Electives: | | |
| ARCH 13 | Architectural Illustration | | |
| ARCH 23 | Architectural Presentations | | |

- ARCH 23 Architectural Presentations
- BUSA 72 Bookkeeping - Accounting
- BUSM 60 Human Relations in Business
- BUSM 66 Small Business Management
- BUSS 35 Professional Selling
- BUSS 50 Retail Store Management and Merchandising

Interior Design Level I - Merchandising

Consumer Science and Design Technologies Certificate L1322

This program is intended to prepare students for employment as assistants and sales personnel for interior design products. The Interior Design program works within a Regional Interior Design Consortium of nearby community colleges. Many of the required courses may also be offered at the following community colleges: Fullerton, Long Beach City, Orange Coast, and Saddleback, and will meet the requirements of the Mt. SAC program. Regional

course numbers have an ID (Interior Design) prefix. Some Mt. San Antonio College courses are offered by other departments and are identified by Mt. San Antonio College prefixes and numbers. These courses have the regional identification course number (RID) in parenthesis following their course title.

Requirements for the Certificate Reauired courses:

| neganea | /415051 | | |
|---------|---------------------------------------|------|--------|
| ARCH 11 | Architectural Drawing | 3.0 | CSU,UC |
| ARCH 16 | Basic CAD and Computer Application | 4.0 | CSU,UC |
| BUSS 35 | Professional Selling | 3.0 | CSU |
| ID 100 | Fundamentals of Interior Design | 3.0 | CSU |
| ID 105 | Interior Design Studio I | 2.0 | CSU |
| ID 120 | Interior Design Careers | 2.0 | CSU |
| ID 130 | Applied Color and Design Theory | 4.0 | CSU |
| ID 150 | Interior Materials and Products | 4.0 | CSU |
| | Total Units | 25.0 | |
| 1 | | | |

Interior Design Level II - Design Consumer Science and Design Technologies Certificate T1330

This program is available as a certificate for students who have previous A.A., A.S. or Bachelor's Degree in another discipline. This program is designed to meet the professional requirements for entrance into an interior design career as an assistant interior designer. The Interior Design program works within a Regional Interior Design Consortium of nearby community colleges. Many of the required courses may also be offered at the following community colleges: Fullerton, Long Beach City, Orange Coast, and Saddleback, and will meet the requirements of the Mt. SAC program. Regional course numbers have an ID (Interior Design) prefix. Some Mt. San Antonio College courses are offered by other departments and are identified by Mt. San Antonio College prefixes and numbers. These courses have the regional identification course number (RID) in parenthesis following their course title.

Requirements for the Certificate Reauired courses:

Completion of the Interior Design Level I - Merchandising course work (25 units) as follows:

| Architectural Drawing | 3.0 | CSU,UC |
|---------------------------------|--|---|
| Basic CAD | 4.0 | CSU,UC |
| and Computer Application | | |
| Professional Selling | 3.0 | CSU |
| Fundamentals of Interior Design | 3.0 | CSU |
| Interior Design Studio I | 2.0 | CSU |
| | Basic CAD and Computer Application Professional Selling Fundamentals of Interior Design | Basic CAD4.0and Computer Application70Professional Selling3.0Fundamentals of Interior Design3.0 |

| Programs | of | Study | Leading | to | а | Certificate |
|----------|----|-------|---------|----|---|-------------|
|----------|----|-------|---------|----|---|-------------|

| ID 120 | Interior Design Careers | 2.0 | CSU |
|---------------|--|------|--------|
| ID 130 | Applied Color and Design Theory | 4.0 | CSU |
| ID 150 | Interior Materials and Products | 4.0 | CSU |
| Required co | urses: | | |
| Level II as f | ollows: | | |
| ARCH 13 | Architectural Illustration | 3.0 | CSU,UC |
| ARCH 15 | Architectural Working Drawings - I | 3.0 | CSU |
| ID 170 | Space Planning | 3.0 | CSU |
| ID 180 | History of Interior Architecture & Furnishings I | 3.0 | CSU |
| ID 190 | History of Interior Architecture & Furnishings II | 3.0 | CSU |
| ID 210 | Fundamentals of Lighting | 3.0 | |
| ID 215 | Interior Design Studio II | 2.0 | CSU |
| ID 230 | Business and Professional Practice | 3.0 | |
| ID 240A | Interior Design Internship Seminar | 1.0 | |
| | and | | |
| ID 240B | Interior Design Internship | 1.0 | |
| | Total Units | 50.0 | |
| | | | |

Interior Design Level III - Professional Designation Consumer Science and Design Technologies Certificate F1391

This program has been aligned with California State University Dominguez Hills (CSUDH) to offer students either a Bachelor of Arts (BA) in Interdisciplinary Studies through PACE (Program for Adult College Education) or a Bachelor of Science (BS) in Applied Studies. Students must complete the Mt. San Antonio College (or Regional) Interior Design A.S. Degree major requirements and Mt. SAC general education requirements to transfer into either of the CSUDH programs. While completing the Bachelor's Degree program at CSUDH, students must complete 16 units of credit in Interior Design at Mt. SAC or another college within the Regional Interior Design Program. Upon completion of the Bachelor Degree, the student may request a Professional Designation in Interior Design from the Interior Design program at Mt. SAC. Students already holding a Bachelor Degree may also apply for the Professional Designation in Interior Design after completing the requirements listed below.

| Requirements for the Certificate Required courses: | | | | | | |
|---|---|-------|---------|--|--|--|
| Completion | n of the Interior Design Level I - Me k (25 units) as follows: | ercha | ndising | | | |
| ARCH 11 | Architectural Drawing | 3.0 | CSU,UC | | | |
| ARCH 16 | Basic CAD and Computer | 4.0 | CSU,UC | | | |
| | Application | | | | | |
| BUSS 35 | Professional Selling | 3.0 | CSU | | | |
| ID 100 | Fundamentals of Interior Design | 3.0 | CSU | | | |
| ID 105 | Interior Design Studio I | 2.0 | CSU | | | |
| ID 120 | Interior Design Careers | 2.0 | CSU | | | |
| ID 130 | Applied Color and Design Theory | 4.0 | CSU | | | |
| ID 150 | Interior Materials and Products | 4.0 | CSU | | | |
| Required c | ourses: | | | | | |
| - | rse work as follows: | | | | | |
| ARCH 13 | Architectural Illustration | 3.0 | CSU,UC | | | |
| ARCH 15 | Architectural Working | 3.0 | CSU | | | |
| | Drawings - I | | | | | |
| ID 170 | Space Planning | 3.0 | CSU | | | |
| ID 180 | History of Interior Architecture | 3.0 | CSU | | | |
| | & Furnishings I | | | | | |
| ID 190 | ID 190 History of Interior Architecture | | CSU | | | |
| | & Furnishings II | | | | | |
| ID 210 | Fundamentals of Lighting | 3.0 | | | | |
| ID 215 | Interior Design Studio II | 2.0 | CSU | | | |
| ID 230 | Business and Professional Practice | 3.0 | | | | |
| ID 240A | Interior Design Internship | 1.0 | | | | |
| | Seminar | | | | | |
| | and | | | | | |
| ID 240B | Interior Design Internship | 1.0 | | | | |
| Required co | ourses: | | | | | |
| Level III co | urse work as follows: | | | | | |
| ARCH 18 | Architectural Computer Aided Design Elements | 3.0 | | | | |
| BUSA 7 | Principles of Accounting - Financial | 5.0 | CSU,UC | | | |
| ID 250 | Codes and Specifications for Interior Design | 2.0 | CSU | | | |
| ID 260 | Rendering and Rapid | 2.0 | CSU | | | |
| 10.265 | Visualization | 2.0 | | | | |
| ID 265 | Interior Design Studio III - Kitchens | 2.0 | | | | |
| ID 275 | Interior Design Studio IV | 2.0 | CSU | | | |
| | - Bath Design Total Units | 66.0 | | | | |
| | IULAI UNITS | 00.0 | | | | |
| | | | | | | |

| sing U,UC U,UC | C This certificate program is designed to give students basic | | | | | Landscape Design and Construction Agricultural Sciences Department Certificate L0109 This certificate program is designed to give students basic skills needed in employment for a landscape contractor. All courses are applicable for degree requirements. | | | | |
|-----------------------------|---|--|----------------|---------------------|--|---|--------------------|--------|--|--|
| U | malls, resta | urants, and other locations. All cour for degree requirements. | | | Requirer | ments for the Certificate | | | | |
| U | | nents for the Certificate | | | Required courses: AGOR 1 Horticultural Science 3.0 CSU | | | | | |
| U | Required co | | | | AGOR 1 AGOR 13 | Horticultural Science Landscape Design | | CSU | | |
| U | AGOR 1 | Horticultural Science | 30 | CSU | AGOR 15 AGOR 29 | Ornamental Plants - Herbaceous | | | | |
| U | AGOR 13 | Landscape Design | | CSU | AGOR 29 AGOR 30 | Ornamental Plants | | CSU,UC | | |
| 0 | AGOR 15 | Interior Landscaping | 3.0 | 000 | AGON 20 | - Trees and Woody Shrubs | 5.0 | C30,0C | | |
| | AGOR 24 | Integrated Pest Management | | CSU | AGOR 50 | Soil Science and Management | 3 0 | CSU,UC | | |
| | AGOR 29 | Ornamental Plants - Herbaceous | | | AGOR 51 | Tractor and Landscape | | CSU | | |
| U,UC | AGOR 32 | Landscaping and Nursery | | CSU | //doit 91 | Equipment Operations | 5.0 | 000 | | |
| U | AGOR 62 | Management Landscape Irrigation | | CSU | AGOR 62 | Landscape Irrigation - Design and Installation | 3.0 | CSU | | |
| U | | - Design and Installation | 5.0 | | AGOR 71 | Landscape Construction | 3.0 | CSU | | |
| U | AGOR 64 | Landscape Irrigation | 3.0 | | | Fundamentals | | | | |
| U | | - Drip and Low Volume | 24.0 | | AGOR 72 | Landscape Hardscape Applications Total Units | 3.0 27.0 | CSU | | |
| | Certificat This certific skills in the are applical | ate program is designed to give stu maintenance of landscape of park: ble for degree requirements. | ıden s. All | ts basic courses | Agricultural Sciences Department Certificate T0117 This certificate program is designed to give students basic skills to seek employment in equipment repair, golf courses, rental yards, and small equipment repair shops. All courses are applicable for degree requirements. | | | | | |
| | Requirer Required co | ments for the Certificate | | | | nents for the Certificate | 3. | | | |
| | AGOR 1 | Horticultural Science | 3.0 | CSU | Required courses: | | | | | |
| | AGOR 24 | Integrated Pest Management | | CSU | AGOR 1 | Horticultural Science | 3.0 | CSU | | |
| | AGOR 29 | Ornamental Plants - Herbaceous | | | AGOR 51 | Tractor and Landscape | 3.0 | CSU | | |
| U,UC | AGOR 30 | Ornamental Plants | | CSU,UC | | Equipment Operations | | | | |
| 0,00 | | - Trees and Woody Shrubs | 5.0 | | AGOR 52 | Hydraulics | 3.0 | CSU | | |
| U | AGOR 39 | Turf Grass Production | 3.0 | CSU | AGOR 53 | Small Engine Repair I | 3.0 | CSU | | |
| - | | and Management | | | AGOR 54 | Small Engine Repair II | 3.0 | CSU | | |
| U | AGOR 40 | Sports Turf Management | 3.0 | | AGOR 55 | Diesel Engine Repair | 3.0 | CSU | | |
| | AGOR 51 | Tractor and Landscape | 3.0 | CSU | AGOR 56 | Engine Diagnostics | 3.0 | CSU | | |
| | | Equipment Operations | | | AGOR 57 | Power Train Repair | 3.0 | | | |
| U | AGOR 62 | Landscape Irrigation - Design and Installation | 3.0 | CSU | AGOR 71 | Landscape Construction Fundamentals | 3.0 | CSU | | |
| | AGOR 63 | Landscape Irrigation Systems Management | 3.0 | | AGOR 72 | Landscape Hardscape Applications | 3.0 | CSU | | |
| | AGOR 71 | Landscape Construction Fundamentals | 3.0 | CSU | AGOR 91 | Work Experience in Nursery Operations | 1.0 - | - 4.0 | | |

30.0

Total Units

31.0 - 34.0

Total Units

PLUS

| | | | | | PLUS | |
|-----------------------|-------------|---|-------------------------------|---------------------|-------------|-----------------------|
| | | ape Irrigation | Select four (4) courses from: | | | |
| | - | Iral Sciences Department | ADJU 6 | Concepts of Enford | | |
| | Certificat | | ADJU 13 | Concepts of Traffic | | |
| | | ate program is designed to give s | | ts basic | ADJU 20 | Principles of Inves |
| | | gation design, repair, installation, | | | ADJU 38 | Narcotics Investig |
| | | ent, and troubleshooting. A studer | | | ADJU 59 | Gangs in the Com |
| | | nt with a landscape contractor, sc All courses are applicable for degr | | Darks, | | Corrections |
| | requiremer | | ee | | ADJU 74 | Vice Control |
| | • | | | | CORS 30 | Ethnic Relations ir |
| | | ments for the Certificate | | | CORS 40 | Crime and Deling |
| | Required co | | 2.0 | <i>cc</i> 11 | CORS 45 | The Violent Offend |
| | AGOR 1 | Horticultural Science | 510 | CSU | | Total Units |
| | AGOR 13 | Landscape Design | | CSU | Recomme | nded Electives: |
| | AGOR 39 | Turf Grass Production and Management | 3.0 | CSU | PE-F 50 | Physical Skills Pre |
| | AGOR 50 | Soil Science and Management | 3.0 | CSU,UC | | for Law Enforcem |
| | AGOR 50 | Tractor and Landscape | 3.0 | | PE-F 51 | Agility Testing Pre |
| | AUUN JI | Equipment Operations | 5.0 | 00 | | for Law Enforcem |
| | AGOR 62 | Landscape Irrigation | 3.0 | CSU | PE-F 52 | Fitness and Condition |
| | 71001102 | - Design and Installation | 5.0 | 000 | | Fire Science and F |
| | AGOR 63 | Landscape Irrigation Systems | 3.0 | | SPAN 66 | Spanish for Fire ar |
| | | Management | | | | |
| | AGOR 64 | Landscape Irrigation | 3.0 | | Legal (| Office Specia |
| - Drip and Low Volume | | | | | Office Te | chnology Depai |
| | AGOR 71 | Landscape Construction | 3.0 | CSU | Certifica | te T0519 |
| | | Fundamentals | | | This progra | am is intended to pre |
| | | Total Units | 27.0 | | employme | nt as entry-level leg |
| | | | | | corretarios | administrativo acci |

Law Enforcement

Public Services Department Certificate T2102

This program is intended to prepare students for employment following graduation. Students desiring a Bachelor's Degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses.

| Require | ements for the Certificate | |
|----------|----------------------------|--|
| Required | courses: | |
| ADIII 1 | The Administration | |

| ADJU 1 | The Administration of Justice System | 3.0 | CSU,UC | |
|---------|---|-----|--------|--|
| ADJU 2 | Principles and Procedures of the Justice System | 3.0 | CSU | |
| ADJU 3 | Concepts of Criminal Law | 3.0 | CSU,UC | |
| ADJU 4 | Legal Aspects of Evidence | 3.0 | CSU | |
| ADJU 5 | Community Relations | 3.0 | CSU,UC | |
| ADJU 68 | Administration of Justice Report Writing | 3.0 | | |
| | | | | |

| ADJU 6 ADJU 13 | C | | |
|--|--|---|--|
| ADIU 13 | Concepts of Enforcement Service | es 3.0 | |
| | Concepts of Traffic Services | 3.0 | |
| ADJU 20 | Principles of Investigation | 3.0 | CSU |
| ADJU 38 | Narcotics Investigation | 3.0 | |
| ADJU 59 | Gangs in the Community/ Corrections | 3.0 | CSU |
| ADJU 74 | Vice Control | 3.0 | |
| CORS 30 | Ethnic Relations in Corrections | 3.0 | |
| CORS 40 | Crime and Delinquency | 3.0 | |
| CORS 45 | The Violent Offender | 3.0 | |
| | Total Units | 30.0 | |
| Recomme | nded Electives: | | |
| PE-F 50 | Physical Skills Preparation for Law Enforcement and Fire Sc | ience | |
| PE-F 51 | Agility Testing Preparation for Law Enforcement and Fire Sc | ience | |
| PE-F 52 | Fitness and Conditioning for Law Fire Science and Forestry | / Enfo | rcement, |
| SPAN 66 | Spanish for Fire and Police Perso | nnel | |
| | , administrative assistants, legal of | | |
| required. To and law of a Bachelor | fice support staff where legal knov raining in a variety of computer an fice procedures is emphasized. Stu 's Degree (transfer program) shoul | vledge d cleri dents d cons | e is cal skills, desiring sult with |
| required. To and law of a Bachelor a counselo | fice support staff where legal know raining in a variety of computer an fice procedures is emphasized. Stue | vledge d cleri dents d cons | e is cal skills, desiring sult with |
| required. To and law of a Bachelor a counselo | fice support staff where lega ^T knov raining in a variety of computer an fice procedures is emphasized. Stur 's Degree (transfer program) shoul r or advisor to discuss transferabili ments for the Certificate | vledge d cleri dents d cons | e is cal skills, desiring sult with |
| required. To and law of a Bachelor a counselo Require | fice support staff where lega ^T knov raining in a variety of computer an fice procedures is emphasized. Stur 's Degree (transfer program) shoul r or advisor to discuss transferabili ments for the Certificate | vledge d cleri dents d cons | e is cal skills, desiring sult with |
| required. To and law of a Bachelor a counselo Require <i>Required</i> | fice support staff where legal know raining in a variety of computer an fice procedures is emphasized. Stur 's Degree (transfer program) shoul r or advisor to discuss transferabili ments for the Certificate <i>jourses:</i> | vledge d cleri dents d cons ty of c 3.0 | e is cal skills, desiring sult with |
| required. The and law of a Bachelor a counselo Required BUSO 5 | fice support staff where legal know raining in a variety of computer an fice procedures is emphasized. Stur 's Degree (transfer program) shoul r or advisor to discuss transferabili ments for the Certificate <i>ourses:</i> Business English Business Communications | vledge d cleri dents d cons ty of c 3.0 | e is cal skills, desiring sult with ourses. |
| required. Tr and law of a Bachelor a counselo Required BUSO 5 BUSO 25 | fice support staff where legal know raining in a variety of computer an fice procedures is emphasized. Stur 's Degree (transfer program) shoul r or advisor to discuss transferabili ments for the Certificate <i>ourses:</i> Business English | vledge d cleri dents d cons ty of c 3.0 3.0 | e is cal skills, desiring sult with ourses. CSU |
| required. Ti and law of a Bachelor a counselo Required BUSO 5 BUSO 25 COMP 1 | fice support staff where legal know raining in a variety of computer an fice procedures is emphasized. Stur 's Degree (transfer program) shoul r or advisor to discuss transferabili ments for the Certificate <i>Jourses:</i> Business English Business Communications Computer Keyboarding Intermediate Computer | vledge d cleri dents d cons ty of c 3.0 3.0 4.0 4.0 | e is cal skills, desiring sult with ourses. CSU |
| required. Ti and law of a Bachelor a counselo Required BUSO 5 BUSO 25 COMP 1 COMP 2 | fice support staff where legal know raining in a variety of computer an fice procedures is emphasized. Stur 's Degree (transfer program) shoul r or advisor to discuss transferabili ments for the Certificate fourses: Business English Business Communications Computer Keyboarding Intermediate Computer Keyboarding | vledge d cleri dents d cons ty of c 3.0 3.0 4.0 4.0 | e is cal skills, desiring sult with ourses. CSU CSU |
| required. Ti and law of a Bachelor a counselo Required BUSO 5 BUSO 25 COMP 1 COMP 2 | fice support staff where legal knov raining in a variety of computer an fice procedures is emphasized. Stur 's Degree (transfer program) shoul r or advisor to discuss transferabili ments for the Certificate <i>ourses:</i> Business English Business Communications Computer Keyboarding Intermediate Computer Keyboarding Internet Research for Business Office Computer Applications | vledge d cleri dents d cons ty of c 3.0 3.0 4.0 4.0 2.0 | e is cal skills, desiring sult with ourses. CSU CSU |
| required. Ti and law of a Bachelor a counselo Required BUSO 5 BUSO 5 BUSO 25 COMP 1 COMP 2 COMP 11 COMP 12 | fice support staff where legal know raining in a variety of computer an fice procedures is emphasized. Stur 's Degree (transfer program) shoul r or advisor to discuss transferabili ments for the Certificate <i>ourses:</i> Business English Business Communications Computer Keyboarding Intermediate Computer Keyboarding Internet Research for Business Office Computer Applications <u>or</u> | vledge d cleri dents d cons ty of c 3.0 3.0 4.0 4.0 2.0 4.0 4.0 | e is cal skills, desiring sult with ourses. CSU CSU CSU CSU,UC |
| required. Ti and law of a Bachelor a counselo Required BUSO 5 BUSO 5 BUSO 25 COMP 1 COMP 12 COMP 12 CISB 15 | fice support staff where legal knov raining in a variety of computer an fice procedures is emphasized. Stur 's Degree (transfer program) shoul r or advisor to discuss transferabili ments for the Certificate <i>ourses:</i> Business English Business Communications Computer Keyboarding Intermediate Computer Keyboarding Internet Research for Business Office Computer Applications <u>or</u> Microcomputer Applications | vledge d cleri dents d cons ty of c 3.0 3.0 4.0 4.0 2.0 4.0 4.0 | e is cal skills, desiring sult with ourses. CSU CSU CSU CSU,UC |
| required. Ti and law of a Bachelor a counselo Required BUSO 5 BUSO 5 BUSO 25 COMP 1 COMP 12 COMP 11 COMP 12 CISB 15 COMP 20 | fice support staff where legal know raining in a variety of computer an fice procedures is emphasized. Stur 's Degree (transfer program) shoul r or advisor to discuss transferabili ments for the Certificate <i>ourses:</i> Business English Business Communications Computer Keyboarding Intermediate Computer Keyboarding Internet Research for Business Office Computer Applications <u>or</u> Microcomputer Applications Word for the Business Professior Office Management Skills | vledge d cleri dents of d cons ty of c 3.0 3.0 4.0 4.0 2.0 4.0 4.0 4.0 4.0 4.0 | e is cal skills, desiring sult with ourses. CSU CSU CSU CSU,UC |
| required. Ti and law of a Bachelor a counselo Required BUSO 5 BUSO 25 COMP 1 COMP 12 COMP 11 COMP 12 CISB 15 COMP 20 COMP 28 | fice support staff where legal know raining in a variety of computer an fice procedures is emphasized. Stur 's Degree (transfer program) shoul r or advisor to discuss transferabili ments for the Certificate <i>ourses:</i> Business English Business Communications Computer Keyboarding Intermediate Computer Keyboarding Internet Research for Business Office Computer Applications <u>Or</u> Microcomputer Applications Word for the Business Professior | vledge d cleri dents d d cons ty of c 3.0 3.0 4.0 4.0 4.0 4.0 4.0 4.0 3.0 3.0 3.0 3.0 | e is cal skills desiring sult with ourses. CSU CSU CSU CSU,UC |

| PLGL 35A | Law Office Procedures | 3.0 | CSU | metal worl | |
|---------------|---|--------|----------|----------------------|-----------------|
| PLGL 35B | Automated Law Office Procedure | es 3.0 | | mechanica | l techni |
| | Total Units | 39.0 | | Require | ment |
| | ore courses for the Legal Office Sp | | | Required c | ourses: |
| | are equivalent to the courses requi | | | MFG 11 | Manu |
| Administra | tive Assistant Levels I and II certifi | cates. | | MFG 12 | Manı |
| | | | | MFG 15 | Auto |
| Livesto | ock Management | | | MFG 17 | 3-D C |
| Agricultu | Iral Sciences Department | | | MFG 19 | Parar |
| Certificat | e T0103 | | | | for M |
| This certific | ts basic | MFG 38 | Mast | | |
| | stock management for employme | | | MFG 38B | Adva |
| | ies on farms, ranches, and agricult | | | MFG 39 | SurfC |
| | courses are applicable for degree | requi | rements. | MFG 39B | SurfC |
| - | ments for the Certificate | | | MFG 58 | Bluep |
| Required c | | | | 1456 70 | for M |
| AGAB 20 | Microcomputer Applications in Agriculture | 3.0 | CSU,UC | MFG 70 | Techr - Mar |
| AGAG 1 | Food Production, Land Use and Politics - A Global Perspectiv | | CSU,UC | MFG 85 | Manı (Com |
| AGAG 91 | Agricultural Calculations | 3.0 | | PLUS | (|
| AGAN 1 | Animal Science | 3.0 | CSU,UC | | (7) |
| AGAN 2 | Animal Nutrition | 3.0 | CSU | Select two MFG 25 | (2) COL Adva |
| AGAN 94 | Animal Breeding | 3.0 | 000 | MIFG 25 | Mode |
| AGLI 14 | Swine Production | | CSU | MFG 27 | Auto |
| AGLI 16 | Horse Production | | CSU,UC | WELD 40 | Intro |
| AGLI 17 | Sheep Production | | CSU | WLLD TO | Tota |
| AGLI 30 | Beef Production | | CSU | | IVtu |
| AGLI 34 | Livestock Judging and Selection | | CSU,UC | Marke | tina |
| AGLI 96 | Animal Sanitation | 3.0 | , | Business | _ |
| Addi yo | and Disease Control | 5.0 | 00 | Certifica | |
| PLUS | | | | Require | ment |
| | 6) units from: | | | Required c | ourses: |
| AGOR 71 | Landscape Construction | 3.0 | CSU | BUSM 20 | Princ |
| DUCLOS | Fundamentals | | | BUSM 61 | Busin |
| BUSM 20 | Principles of Business | | CSU,UC | | and M |
| BUSM 66 | Small Business Management | | CSU | BUSS 35 | Profe |
| BUSS 35 | Professional Selling | | CSU | BUSS 36 | Princ |
| BUSS 36 | Principles of Marketing | 3.0 | CSU | BUSS 50 | Retai |
| | Total Units | 42.0 | | | and M |
| | | | | BUSS 70 | Interr |
| | acturing Technology Maintenance Tech | | | BUSS 79 | Work in Ma |
| | acturing Dept. | | | BUSS 85 | Speci |
| Certificat | e T0918 | | | CISB 15 | Micro |
| | y purpose of this program is to em ve skills required to enter the field | | | | Tota |

metal worker, machine operator, production machinist, mechanical technician, or machinist.

Requirements for the Certificate *Required courses:*

| | Required c | ourses: | | |
|----|------------|---|-------------|------------|
| | MFG 11 | Manufacturing Processes I | 2.0 | CSU |
| | MFG 12 | Manufacturing Processes II | 2.0 | CSU |
| _ | MFG 15 | AutoCAD 2D | 2.0 | |
| | MFG 17 | 3-D CAD - Mechanical Modeling | 2.0 | |
| | MFG 19 | Parametric Solid Modeling | 2.0 | |
| | | for Manufacturing | | |
| | MFG 38 | MasterCAM I | 2.0 | CSU |
| | MFG 38B | Advanced MasterCAM | 2.0 | CSU |
| | MFG 39 | SurfCAM I | 2.0 | CSU |
| s. | MFG 39B | SurfCAM II | 2.0 | CSU |
| | MFG 58 | Blueprint Reading for Manufacturing | 2.0 | |
| С | MFG 70 | Technical Mathematics - Manufacturing Applications | 2.0 | CSU |
| С | MFG 85 | Manual CNC | | CSU |
| | | (Computerized Numerical Contro | l) Ope | erations |
| | PLUS | | | |
| С | Select two | (2) courses from: | | |
| | MFG 25 | Advanced Parametric Solid Modeling for Manufacturing | 2.0 | |
| | MFG 27 | Autodesk Inventor | 2.0 | |
| С | WELD 40 | Introduction to Welding | 2.0 | CSU |
| | | Total Units | 28.0 | |
| С | Marke | ting Management | | |
| | Business | Administration Departmer | nt | |
| | Certificat | | | |
| | | ments for the Certificate | | |
| | Required c | | | |
| | BUSM 20 | Principles of Business | 3.0 | CSU,UC |
| С | BUSM 61 | Business Organization | 3.0 | CSU |
| C | DUCCOC | and Management | 2.0 | CCU |
| | BUSS 35 | Professional Selling | 3.0 | |
| | BUSS 36 | Principles of Marketing | 3.0 | CSU |
| | BUSS 50 | Retail Store Management and Merchandising | 3.0 | |
| _ | BUSS 70 | International Marketing Concepts | | |
| | BUSS 79 | Work Experience in Marketing Management | 1.0 | |
| | BUSS 85 | Special Issues in Marketing | 2.0 | |
| | CISB 15 | Microcomputer Applications | 4.0 | CSU,UC |
| | CISPID | | | 00,00 |
| | | | 25.0 | 00,00 |

| | | | | | | | | , , , , , , , , , , , , , , , , , , , |
|--|--|--|--|---|----|---|--|--|
| Medical Office Specialist Office Technology Department Certificate T0523 This program is intended to prepare students f as entry-level medical office assistants, medica administrative assistants - medical, medical of | al receptionists, | MENT 58D | Medical-Surgical Nursing for Psychiatric Technicians 9.0 for Psychiatric Technicians 4.0 Clinical Experience 4.0 Advanced Medical-Surgical 4.0 Nursing and Pharmacology for PT 4.0 Advanced Medical-Surgical 1.5 Nursing for Psychiatric Technicians Clir 1.5 | | e) | Take the required English Placement Test (AWE). Eligibility for ENGL 68 is advised. If you have already taken a college placement exam within the past two years at another school, arrange to have your test scores forwarded to the Technology and Health Division Office. (If you were tested at Mt. San Antonio College, the office will obtain the test | i) | also be required as part of this physical examination. Proof of high school graduation and malpractice insurance are required of all candidates upon acceptance. Certain convictions may prevent a candidate from being licensed as a Psychiatric Technician. |
| other office support staff in the medical field. T variety of computer and clerical skills is empha desiring a Bachelor's Degree (transfer program with a counselor or advisor to discuss transfera | asized. Students n) should consult | MENT 70 MENT 70L | Introduction to Psychiatric1.5TechnologyIntroduction to Psychiatric2.0Technology Clinical Technicians2.0 | | | scores as long as an "Application for Admission" is on file with the Admissions and Records Office.) Testing is administered by the Assessment Center, | | All students will be required to pass a background check prior to entering the clinical education phase. |
| Requirements for the Certificate Required courses: BUSA 72 Bookkeeping - Accounting BUSA 72 Bookkeeping - Accounting BUSO 5 Business English BUSO 25 Business Communications COMP 1 Computer Keyboarding COMP 2 Intermediate Computer Keyboarding COMP 12 Office Computer Applications OT Office Computer Applications COMP 18 Data Entry COMP 20 Word for the Business Professional COMP 28 Office Management Skills COMP 68 Transcription Techniques MEDI 90 Medical Terminology Total Units | 5.0 3.0 3.0 CSU 4.0 CSU 4.0 CSU,UC 4.0 CSU,UC 4.0 CSU,UC 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 | MENT 73L MENT 73T MENT 82 PSYC 1A Special Info To remain in or better gr The student Examination | Nursing Care of the7.0Developmentally Disabled PersonNursing Care of the5.0Developmentally Disabled PersonCliPsychiatric Nursing5.0for Psychiatric Technicians6.0for Psychiatric Technicians6.0Work Experience2.0in Mental Health Technology3.0Total Units53.0 | inical CSU,UC in a "C" ate Board | | located in the Student Services Center. Arrangements should be made with them to schedule a day and time to take the English Placement Test, if required. The Assessment Center is open Monday through Friday. You may contact them at (909) 594-5611, Ext. 4265. Forward two official transcripts of all coursework completed (high school, nursing school, and other than Mt. San Antonio College courses.) One transcript must be sent to the Technology and Health Division Office and the other to the Admissions and Records Office. For students who possess a college degree, the English Placement Test is not required. However, it will be necessary for a student to obtain two official copies of the college transcript showing the degree issued. One transcript must be sent to the Technology and Health Division Office and the other to the Admissions and Records Office. | will Plac The of a the Mea Hea | determining eligibility of an applicant, consideration Il be given to satisfactory scores on the English icement Test. e College will make every effort to notify the applicant acceptance by mail no less than two months prior to e beginning of a program. All Applicants are required to test the Essential Functions for Success in the Mental alth Technology - Psychiatric Technician Program. ysical Demands: Perform prolonged, extensive, or considerable standing/walking, lifting positioning, pushing, and/or transferring patients Possess the ability to perform fine motor movements with hands and fingers Possess the ability for extremely heavy effort (lift and carry at least 125 pounds) Perform considerable reaching, stooping, bending, kneeling, and crouching |
| Note: The core courses for the Medical Speci are equivalent to the courses required for th Administrative Assistant Levels I and II certi Mental Health Technology - Psychiatric Technician Department Certificate T1279 Completion of coursework leads to an Assoc Degree. The Psychiatric Technology Program students to take the California State Licensu for Psychiatric Technicians. Requirements for the Certificate Required courses: MENT 40 Introduction to Interviewing and Counseling <u>Or</u> PSYC 40 Introduction to Interviewing and Counseling | he ificates. t ciate of Science n will prepare ure Examination | academic st good standi a) Be a h who h States transc evalua b) Be 18 c) File a studei d) Subm Health Techn 5611, receip | to meeting Mt. San Antonio College's tandards for admission, applicants mus- ing and satisfy the following requirem igh school graduate or equivalent. (All s ave taken coursework outside of the Ur must have their transcript evaluated. F tripts will not be accepted without the ation.) years of age. college application and be accepted as a nt at Mt. San Antonio College. it an application for the Mental n/Psychiatric Technician Program to the ology and Health Division Office (909) 5 ext. 4750. All applications are dated up t in the Technology and Health Division am begins each fall and spring semeste | est be in nents: students Inited Foreign a a e 594- bon n Office. A | h) | NOTE: Concerning Entrance Requirements 'e' and 'f', if the course(s) were taken and/or the degree obtained at Mt. San Antonio College, it is not necessary to request transcripts. Indicate in the mailing address the program for which your transcript is being sent to the Technology and Health Division Office. <u>EXAMPLE:</u> Mt. San Antonio College Technology and Health Division Psychiatric Technician Program 1100 North Grand Avenue Walnut, CA 91789-1399 A physical examination, including specific immunizations, and consent/ disclaimer for Hepatitis A/B vaccine is required of all candidates prior to beginning classes. Students must provide proof that he/she does not have Tuberculosis. These requirements are in accordance with the healthcare agency policy that insures that students are in good health and free from communicable disease and able to perform their training functions. Drug testing may | | space relationships Near vision: ability to see clearly 20 inches or less Hearing: able to recognize a full range of tones Prking Environment: May be exposed to infectious and contagious disease, without prior notification Regularly exposed to the risk of blood borne diseases Exposed to hazardous agents, body fluids and wastes Exposed to hazards of flammable, explosive gases |

Section 7 49

| Contact with patients having different religious, culture, ethnicity, race, sexual orientation, | Require Required of | |
|---|----------------------------------|-----------|
| psychological and physical disabilities, and under a | AGOR 1 | Н |
| wide variety of circumstances | AGOR 2 | PI |
| Handle emergency or crisis situations | AGOR 24 | M In |
| Subject to many interruptions | AGOR 24 AGOR 29 | 0 |
| Requires decisions/actions related to end of life issu | | 0 |
| Exposure to products containing latex | 1.5011.50 | -] |
| English Language Skills: | AGOR 32 | La M |
| Although proficiency in English is not a criteria for admission into the nursing program, students are | AGOR 39 | Tu ar |
| encouraged to be able to speak, write and read English complete classes successfully and to ensure safety for | AGOR 62 | La - I |
| themselves and for others. | AGOR 64 | La - I |
| Microcomputer Productivity Software | | To |
| Computer Information Systems Department Certificate L0702 This certificate program is intended to prepare students to | Park M Agricultu Certifica | ural |

This certificate program is intended to prepare students to use the most popular microcomputer productivity software packages and operating systems: DOS, Microsoft Windows, Microsoft Word, Corel WordPerfect, Microsoft Excel or Lotus 1-2-3, and Microsoft Access.

Requirements for the Certificate Required courses:

| Nursery Management | | | | | | |
|--------------------|---|------|--------|--|--|--|
| | Total Units | 22.0 | - 24.0 | | | |
| COMP 50 | Desktop Presentations Using PowerPoint | 4.0 | CSU | | | |
| CISW 11 | Introduction to Internet Technologies | 4.0 | CSU | | | |
| CISD 11 | Database Management - Microsoft Access | 4.0 | CSU | | | |
| CISB 21 | Microsoft Excel | 4.0 | | | | |
| CISB 15 | Microcomputer Applications | 4.0 | CSU,UC | | | |
| CISN 21 | <u>or</u> Windows Operating System | 4.0 | CSU | | | |
| CISB 13 | Microsoft Windows | 2.0 | CSU | | | |

Agricultural Sciences Department Certificate L0107

This certificate program is designed to give students basic skills in production and marketing of plants and dry goods in the wholesale and retail nursery industry. All courses are applicable for degree requirements.

| AGOR 1 AGOR 2 | Horticultural Science | 3.0 | <i>c</i> cu |
|---|--|------|-------------|
| AGOR 2 | | 5.0 | (30 |
| | Plant Propagation/Greenhouse Management | 3.0 | CSU |
| AGOR 24 | Integrated Pest Management | 3.0 | CSU |
| AGOR 29 | Ornamental Plants - Herbaceous | 3.0 | CSU,UC |
| AGOR 30 | Ornamental Plants - Trees and Woody Shrubs | 3.0 | CSU,UC |
| AGOR 32 | Landscaping and Nursery Management | 3.0 | CSU |
| AGOR 39 | Turf Grass Production and Management | 3.0 | CSU |
| AGOR 62 | Landscape Irrigation - Design and Installation | 3.0 | CSU |
| AGOR 64 | Landscape Irrigation - Drip and Low Volume | 3.0 | |
| | | 27.0 | |
| Agriculto Certifica This certifi required fo | lanagement ural Sciences Department te T0186 cate program is designed to give stu or entry level positions in park mana s placed on positions that are at the | agem | ent. |

Requirements for the Certificate Required courses:

| AGOR 1 | Horticultural Science | 3.0 | CSU |
|---------|---|------|--------|
| AGOR 4 | Park Management | 3.0 | |
| AGOR 5 | Park Facilities | 3.0 | |
| AGOR 24 | Integrated Pest Management | 3.0 | CSU |
| AGOR 30 | Ornamental Plants - Trees and Woody Shrubs | 3.0 | CSU,UC |
| AGOR 39 | Turf Grass Production and Management | 3.0 | CSU |
| AGOR 51 | Tractor and Landscape Equipment Operations | 3.0 | CSU |
| AGOR 62 | Landscape Irrigation - Design and Installation | 3.0 | CSU |
| AGOR 63 | Landscape Irrigation Systems Management | 3.0 | |
| AGOR 75 | Urban Arboriculture | 3.0 | |
| | Total Units | 30.0 | |
| | | | |

| Pet Sc | ience | | | PHOT 17 PHOT 20 | Photocommunication |
|----------------------------|--|--------|----------|--------------------|---|
| | ural Sciences Department | | | PHOT 20 PHOT 28 | Color Photography Photography Portfolio |
| - | ite T0104 | | | PHUI 28 | Development |
| skills in pr and retail | icate program is designed to give st oduction and marketing of pets at level. All courses are applicable for | the w | holesale | PHOT 30 | Commercial and Illustrative Photogr Total Units |
| requireme | | | | Recomme | nded Electives: |
| Require | ments for the Certificate | | | AHIS 1 | Understanding the Visu |
| Required | | | | | or |
| AGAB 20 | Microcomputer Applications | 3.0 | CSU,UC | ARTB 1 | Understanding the Visu |
| ACAN 1 | in Agriculture | 2.0 | | GRAP 12 | Advanced Photo Editing |
| AGAN 1 | Animal Science | | CSU,UC | PHOT 1 | Laboratory Studies: |
| AGAN 2 | Animal Nutrition | | CSU,UC | | Black and White Photog |
| AGAN 51 | Animal Handling and Restraint | | CSU | PHOT 2 | Laboratory Studies: Colo |
| AGAN 94 AGLI 96 | Animal Breeding Animal Sanitation | 3.0 | CSU | PHOT 15 | History of Photography |
| AGLI 90 | and Disease Control | 3.0 | (30 | | |
| AGPE 70 | Pet Shop Management | 3.0 | | | amming In C++ |
| AGPE 71 | Canine Management | 3.0 | | | er Information Syste |
| AGPE 72 | Feline Management | 3.0 | | | te L0794 |
| AGPE 73 | Tropical and Coldwater | 2.0 | | | cate program is intended |
| | Fish Management | | | use the C+ | + programming languag |
| AGPE 74 | Reptile Management | 2.0 | | | |
| AGPE 76 | Aviculture - Cage and Aviary Bird | ds 3.0 | | | ments for the Certi |
| BUSM 66 | Small Business Management | | CSU | Required o | |
| | Total Units | 37.0 | | CISB 11 | Computer Information S |
| | | | | CISD 11 | Database Management - Microcomputers |
| Photo | graphy | | | CISM 11 | Systems Analysis and D |
| Comme | rcial and Entertainment Art | s | | CISM 21 | Client/Server Architectu |
| | ite L1002 | | | CISP 21 | Programming in Java |
| | icate program is designed to prepar | | dents to | CISN 21 | Windows Operating Sys |
| | pecific skills needed for employmen | | | CISP 31 | Programming in C++ |
| | ohy, art, cinema/animation, commu | nicati | ons, | CISP 34 | Advanced C++ Program |
| | arts, graphics, and journalism. | | | | Total Units |
| | ments for the Certificate | | | | |
| Required GRAP 10 | | 3.0 | | Progra | amming In Visua |
| PHOT 10 | Photo Editing with Photoshop Basic Digital | | CSU,UC | | er Information Syste |
| | and Film Photography | 5.0 | C30,0C | | te L0789 |
| PHOT 11 | Professional Photography | 4.0 | | | cate is intended to prepare |
| PHOT 12 | Photographic Alternatives | | CSU,UC | 1 | ic which is used to develop |
| | or | 5.0 | 250,00 | interfaces | and client/server applicati |
| PHOT 21 | Exploring Color Photography | 3.0 | | Require | ments for the Certi |
| 1 | ········ | 5.5 | | | |

Fashion Photography

and Wedding Photography

<u>or</u>

Portraiture

3.0

3.0

PHOT 16

PHOT 18

ercial 3.0 ustrative Photography Units 27.0 ctives: standing the Visual Arts standing the Visual Arts ced Photo Editing with Photoshop atory Studies: and White Photography atory Studies: Color Photography y of Photography ng In C++ rmation Systems Department ۶A gram is intended to prepare students to amming language in a business for the Certificate uter Information Systems 3.5 CSU,UC ase Management 4.0 CSU ocomputers ns Analysis and Design 3.5 CSU,UC /Server Architecture, or 4.0 amming in Java 4.0 CSU,UC 4.0 CSU ows Operating System amming in C++ 4.0 CSU,UC 4.0 CSU,UC ced C++ Programming Units 27.0 ng In Visual Basic mation Systems Department 39 tended to prepare students to work in is used to develop graphical user nt/server applications. for the Certificate **Required courses:**

3.0

3.0

2.0

| CISB 11 | Computer Information Systems | 3.5 | CSU,U(|
|---------|------------------------------|-----|--------|
| CISD 11 | Database Management | 4.0 | CSU |
| | - Microcomputers | | |

| | Systems Analysis and Design | 3.5 (5 | U,UC | K-IV 16 | Broadcast Career Preparation |
|-------------|---|-------------|------|----------|---|
| CISM 14 | Computer Information Systems Seminar | 4.0 | | R-TV 97A | Radio/Entertainment Industry Seminar |
| CISM 21 | Client/Server Architecture | 4.0 | | R-TV 97B | Radio/Entertainment |
| CISP 11 | Basic Programming | 4.0 CS | U,UC | | Industry Internship |
| CISP 14 | Advanced Basic Programming | 4.0 CS | U,UC | R-TV 97C | Entertainment Industry |
| | Total Units | 27.0 | | | Internship - KSAK Radio |
| Public | Works/Landscape | | | R-TV 97D | <u>or</u> Entertainment Industry |
| Manag | gement | | | PLUS | Internship - KSAK Radio |
| - | ural Sciences te B0120 | | | | e (9) units from: |
| | | · | _ | R-TV 03 | Sportscasting and Reporting |
| | am is a partnership between Mt. S Id Citrus College, with course requi | | | R-TV 05 | Radio-TV Newswriting |
| | aken at each college (courses in Pu | | | R-TV 06 | Broadcast Traffic Reporting |
| | rough Citrus, while horticulture/la | | uic | R-TV 08 | KSAK Radio Studio Operation |
| | e offered at Mt. SAC). Upon comple | | 2 | R-TV 12 | Commercial Copywriting |
| | nts, students may apply for and re | | | R-TV 17 | Internet Radio Broadcasting |
| Certificate | of Achievement from either of th | e two colle | ges. | R-TV 26 | Legal Issues in Entertainmer |
| Require | ments for the Certificate | | | R-TV 27 | Radio Drama |
| Required | | | | R-TV 31 | History of Radio DJ's |
| PUB 150 | Public Works I (Citrus College) | 3.0 | | R-TV 33 | Radio Show Producer Techni |
| PUB 158 | Municipal and Urban Tree Care | 3.0 | | | and Proedures |
| | (Citrus College) | | | | Total Units |
| AGOR 1 | Horticultural Science | 3.0 | | | |
| AGOR 39 | Turf Grass Production | 3.0 | | Radio | Broadcasting: On t |
| | and Management | | | | cial and Entertainment |
| | Total Units | 12.00 | | | te T0605 |
| | | | | | |

Radio Broadcasting: Behind the Scenes Commercial and Entertainment Arts

Certificate T0606

CISM 11

Systems Analysis and Design

The Behind-the-Scenes Radio Broadcasting Certificate is designed for students who are interested in the nonperformance side of the industry. Students will receive instruction in the various functions of a radio station as they exist independently and in conjunction with the onthe-air product.

Requirements for the Certificate Required courses:

| R-TV 01 | Introduction to Broadcasting | 3.0 | CSU | |
|----------|-------------------------------------|-----|-----|--|
| R-TV 09 | Broadcast Sales and Promotion | 3.0 | | |
| R-TV 10 | Radio Management and Programming | 3.0 | | |
| R-TV 11A | Beginning Radio Production | 3.0 | CSU | |
| R-TV 11B | Advanced Radio Production | 3.0 | CSU | |
| R-TV 15 | Broadcast Business Practices | 3.0 | | |
| | | | | |

3.5 (SILUC R-TV 16 Broadcast Career Preparation 3.0 1.0 1.0 1.0 2.0 1.5 ŋg 3.0 1.5 2.0 CSU ons 3.0 3.0 g ent Law3.0 3.0 3.0 niques 3.0 33.0 - 34.0

the Air Arts

This On-the-Air Radio Broadcasting Certificate is designed for students who are interested in working in the performance side of the industry. Students receive instruction in developing skills needed to work as disc jockeys, newscasters, voice-over artists and in other performance areas of the industry.

Requirements for the Certificate Required courses:

| R-TV 01 Introduction to Broadcasting 3.0 | CSU |
|---|-----|
| R-TV 02 On-Air Personality Development 3.0 | CSU |
| <u>or</u> | |
| R-TV 02A On-Air Personality Development 3.0 - Spanish Market | |
| R-TV 05 Radio-TV Newswriting 3.0 | |
| R-TV 07A Beginning Commercial Voice-Overs3.0 | 1 |
| R-TV 11A Beginning Radio Production 3.0 | CSU |
| R-TV 11B Advanced Radio Production 3.0 | CSU |
| R-TV 15 Broadcast Business Practices 3.0 | |
| R-TV 16 Broadcast Career Preparation 3.0 | |
| R-TV 97A Radio/Entertainment 1.0 | |

| R-TV 97B | Industry Seminar Radio/Entertainment | 1.0 |
|-------------|--|-------------|
| R-TV 97C | Industry Internship KSAK Radio/Internet Radio Internship | 1.0 or 2.0 |
| PLUS | | |
| Select nine | (9) units from: | |
| R-TV 03 | Sportscasting and Reporting | 1.5 |
| R-TV 04 | Broadcast News Field Reporting | 3.0 |
| R-TV 06 | Broadcast Traffic Reporting | 1.5 |
| R-TV 07B | Advanced Commercial Voice-Overs | 3.0 |
| R-TV 08 | KSAK Radio Studio Operations | 2.0 CSU |
| R-TV 09 | Broadcast Sales and Promotion | 3.0 |
| R-TV 10 | Radio Management and Programming | 3.0 |
| R-TV 12 | Commercial Copywriting | 3.0 |
| R-TV 17 | Internet Radio and Podcasting | 3.0 |
| R-TV 26 | Legal Issues in Entertainment Law | 3.0 |
| R-TV 27 | Radio Drama | 3.0 |
| R-TV 31 | History of Radio DJ's | 3.0 |
| R-TV 33 | Radio Show Producer Techniques and Procedures | 3.0 |
| | Total Units | 36.0 - 37.0 |

Real Estate

Business Administration Department Certificate L0512

Prior to applying to take the California Real Estate Salesperson License Exam the applicant must have completed Real Estate Principles (BUSR 50), Real Estate Practice (BUSR 52), and a third elective course in real estate. The certificate in real estate includes these three courses and three additional courses for a total of six of the eight classes needed to satisfy the educational requirements to take the California Real Estate Broker Exam.

Requirements for the Certificate Required courses:

| BUSR 50 | Real Estate Principles | 3.0 | CSU |
|----------|------------------------------|-----|-----|
| BUSR 51 | Legal Aspects of Real Estate | 3.0 | |
| BUSR 52 | Real Estate Practice | 3.0 | |
| | <u>or</u> | | |
| BUSR 52D | Real Estate Practice | 3.0 | |
| | Work Experience | | |
| BUSR 53 | Real Estate Finance | 3.0 | |
| BUSR 81 | Appraisal: Principles | 3.5 | |
| | and Procedures | | |
| | | | |

| PLUS | | | | | | | |
|-----------------------------|--|-----|--------|--|--|--|--|
| Select one (1) course from: | | | | | | | |
| BUSA 11 | Fundamentals of Accounting | 3.0 | | | | | |
| BUSL 18 | Business Law | 3.0 | CSU,UC | | | | |
| BUSR 55 | Real Estate Economics | 3.0 | | | | | |
| BUSR 57 | Income Tax Aspects of Real Estate Investments | 3.0 | | | | | |
| BUSR 59 | Real Estate Property Management | 3.0 | | | | | |

Real Estate Appraisal Business Administration Department

Total Units

BUSR 76

Certificate L0513

Escrow Procedures I

The certificate in Real Estate Appraisal meets all of the educational requirements for Appraiser Trainee, Licensed Appraiser, and depending on the choice of electives may meet the educational requirements for Certified Residential Appraiser.

Requirements for the Certificate Required courses:

| BUSR 81 | Appraisal: Principles and Procedures | 3.5 |
|---------|--|----------|
| BUSR 82 | Uniform Standards of Professional Appraisal Practic | 1.0 e |
| BUSR 83 | Residential Appraisal | 3.5 |
| BUSR 84 | Residential Appraisal: Case Studies | 2.5 |
| PLUS | | |

Select three (3) courses from:

| BUSA 11 | Fundamentals of Accounting | 3.0 | |
|---------|--|-----------------|--------|
| BUSR 50 | Real Estate Principles | 3.0 | CSU |
| BUSR 51 | Legal Aspects of Real Estate | 3.0 | |
| BUSR 53 | Real Estate Finance | 3.0 | |
| BUSR 55 | Real Estate Economics | 3.0 | |
| BUSR 57 | Income Tax Aspects of Real Estate Investments | 3.0 | |
| BUSR 59 | Real Estate Property Management | 3.0 | |
| BUSR 76 | Escrow Procedures I | 3.0 | |
| CISB 15 | Microcomputer Applications | 4.0 | CSU,UC |
| INSP 70 | Elements of Construction | 3.0 | CSU |
| | Total Units | 22 . 5 · | - 23.5 |
| | | | |

3.0

18.5

| School Age Child - Specialization Child Development Certificate T1314 The School Age Child Specialization Certificate (31-33 units) provides the holder with specialized skills for working with children of that age. This certificate meets or exceeds Title 5 Master Teacher - School Age Child Permit Level (with 16 units of general education). | | | 33 eets or | takes place cruiseship o hospitals, c other organ Program Pre in American SIGN 104, Ar | dless number of settings in which this communication kes place. Interpreters are employed by school districts, uiseship companies, corporations, government agencies, spitals, colleges and universities, and a vast number of her organizations and private businesses. ogram Preparation: Preparation for the program includes fluency American Sign Language demonstrated by the completion of iN 104, American Sign Language 4, (or the equivalent skill) and glish fluency demonstrated by the completion of ENGL 1A. | | | Sports Turf Management Agricultural Sciences Department Certificate L0112 This certificate program is designed to provide skills required for students interested in employment at golf courses, race tracks, athletic fields and stadiums, and other high use turf areas. All courses are applicable for degree requirements. | | | R-TV 21 Remote Television Production 3.5 and Engineering 3.0 R-TV 22 Editing for Film and Television 3.0 Total Units 26.0 Recommended Electives: 400 ANIM 115 Storyboarding R-TV 26 Current Issues in Entertainment Law THTR 17 Acting for Television | | |
|--|---|-----------|---------------|--|--|-------------|--------------------------------|---|-----------------------|----------------------------|---|-------------------|--|
| | ments for the Certificate | | | | tional Certification: There are many specialties within the | | | Requirements for the Certificate | | | Theatrical Costumer | | |
| Required c | | | | | n Language Interpreting, but the | | Required o | | | | Department | | |
| CHLD 1 | Child, Family and Community | | CSU,UC | | on preparing the interpreter ger equiring some type of certification | | AGOR 1 | Horticultural Science | 3.0 CSU | Certifica | • | | |
| CHLD 5 | Principles/Practices in Child | 3.0 | CSU | | non in California, there are still m | | AGOR 24 | Integrated Pest Management | 3.0 CSU | 1 | ical Costumer Certificate provides | the holder | |
| | Development Programs | 2.0 | CC 11 | | ies for the precertified interprete | | AGOR 30 | Ornamental Plants | 3.0 CSU,UC | | kills needed for employment as as | | |
| CHLD 6 | Survey of Child Development Curriculum | 3.0 | CSU | | the certificate in Sign Language | | 1000.00 | - Trees and Woody Shrubs | 2.0. (CI) | | positions in the fields of theater, | | |
| CHLD 10 | Child Growth and Development | 20 | csu uc | | ake one a "Certified Interpreter"; | | AGOR 39 | Turf Grass Production and Management | 3.0 CSU | historical r | | , | |
| | • | 5.0 | C30,0C | | of this program are encouraged t | | AGOR 40 | | 3.0 | | ments for the Certificate | | |
| CHLD 10H | or Child Growth and Development | 20 | counc | | terpreting Certification (NIC) thr | | AGOR 40 AGOR 50 | Sports Turf Management Soil Science and Management | 3.0 3.0 CSU,UC | Required | | | |
| | - Honors | 5.0 | C30,0C | | Interpreters for the Deaf (RID) at | | AGOR 50 AGOR 51 | Tractor and Landscape | 3.0 CSU,UC 3.0 CSU | | Drawing: Beginning | 3.0 CSU,UC | |
| CHLD 50 | Multicultural Education: | 3.0 | | Require | nents for the Certificate | | AGUK ST | Equipment Operations | 5.0 (50 | FASH 10 | Clothing Fundamentals | 3.0 CSU | |
| CIILD JU | Anti-Bias Perspective | 5.0 | | Required of | | | AGOR 62 | Landscape Irrigation | 3.0 CSU | FASH 17 | Textiles | 3.0 CSU,UC | |
| CHLD 51 | Early Literacy | 3.0 | | SIGN 105 | American Sign Language 5 | 4.0 | | - Design and Installation | 5.0 (50 | FASH 61 | History of Costume and Fashior | | |
| | in Child Development | 510 | | SIGN 108 | Fingerspelling | 2.0 | AGOR 63 | Landscape Irrigation | 3.0 | THTR 9 | Introduction to Theatre Arts | 3.0 CSU,UC | |
| CHLD 62 | Music and Motor Development | 3.0 | CSU | SIGN 201 | Deaf Perspectives | 3.0 | //doires | Systems Management | 5.0 | THTR 19 | Theatrical Costuming | 3.0 CSU,UC | |
| | for Young Children | | | SIGN 202 | American Deaf Culture | 3.0 CSU,UC | | Total Units | 27.0 | | meatrical costuming | 3.0 (30,00 | |
| CHLD 64 | Health, Safety and Nutrition | 3.0 | CSU | SIGN 210 | American Sign Language | 3.0 CSU,UC | | | | PLUS | | | |
| | of Young Children | | | 51011210 | Structure | 5.0 050,00 | Televis | ion Production | | | (6) units from: | | |
| CHLD 74 | Program Planning | 3.0 | | SIGN 220 | Translation: American Sign | 3.0 CSU | | cial and Entertainment Art | te . | ARTD 20 | Design: Two Dimensional | 3.0 CSU,UC | |
| | for the School Age Child | | | | Language/English | | Certifica | | | THTR 14 | Stagecraft | 3.0 CSU,UC | |
| PLUS | | | | SIGN 223 | Principles of Interpreting | 3.0 CSU | | vill gain experience in film-style p | roduction | THTR 15 | Play Rehearsal and Performance | | |
| Select one | (1) course from: | | | SIGN 225 | Ethical Decision Making | 2.0 | | d studio production. This course of | | THTR 16 | Theatrical Make-Up | 2.0 CSU,UC | |
| ENGL 64 | Writing Effective Sentences | 1.0 | | | for Interpreters | | | t for a certificate in television prod | | THTR 18 | Technical Theater Practicum | 1.0 CSU,UC | |
| ENGL 65 | Grammar Review | 1.0 | | SIGN 227 | Cognitive Processing | 4.0 | | o prepare a student for an entry-l | | | Total Units | 24.0 | |
| LIT 40 | Children's Literature | 3.0 | CSU | | for Interpreters | | industry in | a variety of areas. This includes no | ot only skills | | | | |
| PLUS | | | | SIGN 231 | Interpreting | 4.0 | used in pro | duction, but also preproduction, a | and editing. | Tree Ca | are and Maintenance | 9 | |
| | e (3) units from: | | | SIGN 232 | Advanced Interpreting | 4.0 | Require | ments for the Certificate | | Agricult | ural Sciences Department | | |
| LERN 49 | Math Skills Review | 3.0 | | SIGN 239 | Practicum | 1.0 | Required o | | | Certifica | te L0111 | | |
| MATH 50 | Pre-Algebra | 3.0 | | PLUS | | | R-TV 01 | Introduction to Broadcasting | 3.0 CSU | | cate program is designed to give | | |
| MATT 50 | Total Units | 31.0 - | 33.0 | Select thre | e (3) courses from: | | R-TV 14 | Media Aesthetics | 3.0 | | e repair and maintenance of trees | . All courses are | |
| | Total offics | 51.0 | 55.0 | SIGN 99 | Special Projects | 2.0 | R-TV 15 | Broadcast Business Practices | 3.0 | applicable | for degree requirements. | | |
| Signla | anguage/Interpretin | a | | | in Sign Language/Interpreting | | R-TV 19A | Beginning Television Production | n 3.0 CSU | Require | ments for the Certificate | | |
| | guage Department | 9 | | SIGN 238 | Oral Transliteration | 3.0 | R-TV 19B | Advanced Television Production | 3.0 CSU | Required o | | | |
| Certificate T0801 | | | SIGN 240 | Vocabulary Building | 2.0 CSU | R-TV 100 | Work Experience in Film and TV | 2.0 | AGOR 1 | Horticultural Science | 3.0 CSU | | |
| The Mt. San Antonio College Interpreter Training Program is | | gram is | | for Interpreters | | PLUS | | | AGOR 24 | Integrated Pest Management | 3.0 CSU | | |
| designed to prepare individuals for careers as Sign | | | 515 | SIGN 250 | Interpreting with Classifiers | 1.5 | | e (9) units from: | | AGOR 30 | Ornamental Plants | 3.0 CSU,UC | |
| | nterpreters. Interpreters are need | | rever | SIGN 260 | Video Interpreting | 1.5 | R-TV 18 | Writing for Television/Film | 3.0 CSU | | - Trees and Woody Shrubs | | |
| | ation happens between the heari | | | SL 2 | Linked Service Learning | 1.0 CSU | R-TV 10 | Television News Production | 3.0 | AGOR 32 | Landscaping and Nursery | 3.0 CSU | |
| and the De | af and hard-of-hearing communi | ty. There | e are an | | Total Units | 40.0 - 43.0 | | | 5.0 | | Management | | |

3.0

WELD 90A Gas Tungsten Arc Welding

| AGOR 50 | Soil Science and Management | 3.0 | CSU,UC |
|---------|-----------------------------|------|--------|
| AGOR 51 | Tractor and Landscape | 3.0 | CSU |
| | Equipment Operations | | |
| AGOR 53 | Small Engine Repair I | 3.0 | CSU |
| AGOR 75 | Urban Arboriculture | 3.0 | |
| | Total Units | 24.0 | |
| | | | |

Water Technology Air Conditioning, Water & Welding Technologies Certificate L0921

This program is designed to train students who wish to: (1) seek employment in the water treatment industry, or (2) gualify for a specialized position within the water treatment industry. Material covered in the courses will be helpful to students who wish to prepare for Grade I, Grade II, or Grade III Water Treatment Operator certification examinations given by the State of California, Department of Health, and the AWWA Distribution Operation Certification. It also covers the responsibilities of water supply. State Health Department Title 17 Cross-Connections, and Title 22 Water Quality Standards.

Requirements for the Certificate Required courses:

| WATR 60 | Introduction to Water Systems | 3.0 | |
|---------|--|------|--|
| WATR 61 | Water Treatment | 3.0 | |
| WATR 62 | Water Distribution | 3.0 | |
| WATR 63 | Cross Connection Control - Certified Tester | 3.0 | |
| WATR 64 | Cross Connection Control - Certified Specialist | 3.0 | |
| WATR 65 | Water Hydraulics and Instrumentation | 3.0 | |
| | Total Units | 18.0 | |
| | | | |

Web Page Design

Commercial and Entertainment Arts Department Certificate L0618

This certificate program is designed to provide students with a combination of aesthetic design principles and the technical expertise necessary for employment as a Web page designer.

Requirements for the Certificate Required courses:

| ANIM 175 | Web Animation With Flash | 3.0 | |
|----------|---------------------------------|-----|--------|
| ARTC 60 | Graphic Design: | 3.0 | CSU,UC |
| | Lettering and Typography | | |
| ARTC 70 | Computer Graphics: Introduction | 3.0 | CSU |
| | | | |

| ARTC 74 | Computer Graphics: Web Page Design | 3.0 | CSU |
|----------|---------------------------------------|----------|-------|
| ARTC 171 | Computer Graphics 2: | 3.0 | CSU |
| | Layout and Design With Qua | rkXpress | |
| ARTD 20 | Design: Two Dimensional | 3.0 | CSU,U |
| COMP 13 | Using Web Page Software | 4.0 | CSU |
| PHOT 10 | Beginning Photography | 3.0 | CSU,U |
| | Total Units | 25.0 | |

Welder - Licensed Air Conditioning, Water & Welding Technologies Certificate L0930

This program is designed to prepare students for entrylevel employment in the broad field of welding, including manufacturing construction, fabrication and repair. Through theoretical and hands-on skills coursework students prepare for industry licensing with an understanding of current guidelines and standards. Particular emphasis is placed on those competencies required for certification in structural steel welding. Course sequences can be modified to reflect industry experience or other individual needs.

Requirements for the Certificate Required courses:

| WELD 40 | Introduction to Welding | 2.0 | CSU | |
|----------------------------|---|-----------|---------|---|
| WELD 50 | Oxyacetylene Welding | 2.0 | | |
| WELD 51 | Basic Electric Arc Welding | 2.0 | | |
| WELD 53A | Welding Metallurgy | 3.0 | CSU | |
| WELD 60 | Print Reading | 3.0 | | |
| | and Computations for Welders | | | |
| WELD 70A | Beginning Arc Welding | 3.0 | | |
| WELD 70B | Intermediate Arc Welding | 3.0 | | |
| WELD 70C | Certification for Welders | 3.0 | | |
| WELD 80 | Fabrication and Construction Welding | 3.0 | | |
| WELD 81 | Pipe and Tube Welding | 3.0 | | |
| | Total Units | 27.0 | | |
| Note: Any h for WELD 40 | igher level welding courses may). | / be subs | tituteo | ł |
| | | | | |

Welder - Automotive Welding, **Cutting & Modification** Air Conditioning, Water & Welding Technologies Certificate T0931

Prepares students for entry-level employment as a licensed welder with additional skills development and theory in automotive welding, cutting and modification. Coursework

prepares students for industry licensing with emphasis on competencies required for certification in structural steel welding and specialty skills in automotive welding.

Requirements for the Certificate Reauired courses:

| WELD 40 | Introduction to Welding | 2.0 | CSU |
|----------|------------------------------|-----|-----|
| WELD 50 | Oxyacetylene Welding | 2.0 | |
| WELD 51 | Basic Electric Arc Welding | 2.0 | |
| WELD 53A | Welding Metallurgy | 3.0 | CSU |
| WELD 60 | Print Reading | 3.0 | |
| | and Computations for Welders | | |
| WELD 70A | Beginning Arc Welding | 3.0 | |
| WELD 70B | Intermediate Arc Welding | 3.0 | |
| WELD 70C | Certification for Welders | 3.0 | |
| WELD 80 | Fabrication and Construction | 3.0 | |
| | Welding | | |
| WELD 81 | Pipe and Tube Welding | 3.0 | |
| WELD 91 | Automotive Welding, Cutting | 3.0 | |
| | | | |

and Modification **Total Units** 30.0

Note: Any higher level welding courses may be substituted for WELD 40.

Welder - Gas Tungsten Arc Welding Air Conditioning, Water & Welding Technologies

Certificate T0932

Prepares students for entry-level employment as a licensed welder with additional skills development and theory in gas tungsten ARC welding. Coursework prepares students for industry licensing with emphasis on competencies required for certification in aluminum, CRES, mild steel and selected exotic metals with specialty skills in gas tungsten ARC welding.

Requirements for the Certificate Reauired courses:

| WELD 40 | Introduction to Welding | 2.0 | CSU |
|----------|------------------------------|-----|-----|
| WELD 50 | Oxyacetylene Welding | 2.0 | |
| WELD 51 | Basic Electric Arc Welding | 2.0 | |
| WELD 53A | Welding Metallurgy | 3.0 | CSU |
| WELD 60 | Print Reading | 3.0 | |
| | and Computations for Welders | | |
| WELD 70A | Beginning Arc Welding | 3.0 | |
| WELD 70B | Intermediate Arc Welding | 3.0 | |
| WELD 70C | Certification for Welders | 3.0 | |
| WELD 80 | Fabrication and Construction | 3.0 | |
| | Welding | | |
| WELD 81 | Pipe and Tube Welding | 3.0 | |
| | | | |

| Total Units | 30.0 |
|---|--------------------|
| Note: Any higher level welding cours | ies |
| may be substituted for WELD 40. | |
| Welding - Semiautoma Arc Welding | atic |
| Air Conditioning, Water | |
| & Welding Technologies | |
| Certificate T0933 | |
| Prepares students for entry-level em welder with additional skills develop semiautomatic ARC welding. Coursey | ment and theory in |
| for industry licensing with emphasis | |
| required for certification in structura | 5 |
| specialty skills in semiautomatic ARC | . welding. |

Requirements for the Certificate Reauired courses:

| WELD 40 | Introduction to Welding | 2.0 | CSL |
|-------------|---------------------------------|---------|-------|
| WELD 50 | Oxyacetylene Welding | 2.0 | |
| WELD 51 | Basic Electric Arc Welding | 2.0 | |
| WELD 53A | Welding Metallurgy | 3.0 | CSL |
| WELD 60 | Print Reading | 3.0 | |
| | and Computations for Welders | | |
| WELD 70A | Beginning Arc Welding | 3.0 | |
| WELD 70B | Intermediate Arc Welding | 3.0 | |
| WELD 70C | Certification for Welders | 3.0 | |
| WELD 80 | Fabrication and Construction | 3.0 | |
| | Welding | | |
| WELD 81 | Pipe and Tube Welding | 3.0 | |
| WELD 90B | Semiautomatic Arc Welding | 3.0 | |
| | Process | | |
| | Total Units | 30.0 | |
| Note: Anv h | igher level welding courses may | be subs | stitu |

ote: Any higher level welding courses may be substituted for WELD 40.

SKILLS CERTIFICATES

Accounting - Bookkeeping Accounting and Management Department Certificate E0504

The Accounting - Bookkeeping certificate provides the student with the basic skills and knowledge for entry-level positions within the clerical/ accounting field. Common duties performed in this field are posting transactions to iournals/ledgers, accounts receivable, accounts pavable, inventory tracking/reporting, bank reconciliation, expense reporting, and account analysis. **Requirements for the Certificate**

| Required courses: | | | |
|-------------------|---|-----|--------|
| BUSA 7 | Principles of Accounting - Financial | 5.0 | CSU,UC |
| | <u>or</u> | | |
| BUSA 72 | Bookkeeping - Accounting | 5.0 | |
| BUSA 53 | Ten-Key Calculations, or | 2.0 | |
| | <u>or</u> | | |
| BUSA 81 | Work Experience in Accounting | 1.0 | |
| BUSO 5 | Business English | 3.0 | |
| | | | |

BUSO 25 Business Communications 3.0 CSU Total Units 9.0 - 10.0 BUSA 7 can be substituted for BUSA 72 for those students pursuing a higher level certificate/degree or plan on taking a course for which BUSA 7 is a prerequisite.

Accounting - Payroll

<u>or</u>

Accounting and Management Department Certificate E0505

The Accounting - Payroll Certificate combines accounting skills with specialized training in payroll, preparing the student for entry-level positions within the payroll segment of accounting. Common duties performed include payroll tax reporting, maintenance of payroll accounting systems, and posting payroll transactions to journals/ledgers.

| Requirements for the Certificate Required courses: Completion of Accounting-Bookkeeping Certificate as follows: | | | | | | |
|--|---|-----|--------|--|--|--|
| BUSA 7 | Principles of Accounting - Financial | 5.0 | CSU,UC | | | |
| | <u>or</u> | | | | | |
| BUSA 72 | Bookkeeping - Accounting | 5.0 | | | | |
| BUSA 53 | Ten-Key Calculations | 2.0 | | | | |
| | <u>or</u> | | | | | |

| cate | | | | |
|-------------|--|------------|------------|----------|
| BUSA 81 | Work Experience in Accounting | 1.0 | | Re |
| BUSO 5 | Business English | 3.0 | | Re |
| | or | | | AR |
| BUSO 25 | Business Communications | 3.0 | CSU | AR |
| Plus the fo | ollowing courses: | | | |
| BUSA 70 | Payroll and Tax Accounting | 3.0 | | AR |
| BUSA 75 | Using Microcomputers | 1.0 | | AK |
| | in Financial Accounting | 1.0 | | |
| | <u>or</u> | | | Re |
| BUSA 81 | Work Experience in Accounting | | | AR |
| BUSA 76 | Using Microcomputers | 1.0 | | AR |
| | in Managerial Accounting | | | AR |
| DUCA OF | <u>or</u> | | | AR |
| BUSA 81 | Work Experience in Accounting | | | AR |
| | Total Units | 14.0 | - 15.0 | - |
| | | | | A |
| | istrative Assistant - I | _eve | 11 | Pł |
| | chnology Department | | | Ce |
| | te E0516 | | | Th |
| | Certificate prepares students for en | | | ex an |
| | here keyboarding is the primary fu | ncuon. | | de |
| | ments for the Certificate | | | wi |
| Required o | | 2.0 | | Re |
| BUSO 5 | Business English | 3.0 | <i>ccu</i> | Re |
| COMP 1 | Computer Keyboarding | 4.0 | CSU | PE |
| COMD 14 | <u>Or</u> Commuter Kardo condina | 2.0 | CCU | '' |
| COMP 1A | Computer Keyboarding | 2.0 | CSU | PE |
| COMD 1D | <u>and</u> Generates Kash sending | 2.0 | <i>ccu</i> | '' |
| COMP 1B | Computer Keyboarding | | CSU | PE |
| COMP 12 | Office Computer Applications | 4.0 | CSU,UC | |
| | <u>Or</u> Misson and the Association of | 4.0 | | PE |
| CISB 15 | Microcomputer Applications | 4.0 | CSU,UC | PE |
| COMP 28 | Office Management Skills | 3.0 | | |
| | Total Units | 14.0 | | |
| | | | | - |
| | sthetics for Technolo | | | B |
| | cial and Entertainment Art te E1013 | ts | | M |
| | | at third i | ing about | Ac |
| | ate program is designed for the studer professional work force or seeking cur | | | Ce |
| | nt. It provides design skills necessary i | | | Thi |
| aavanterne | incirc provides design skills necessal y I | nartall | iu ii | wo |

technology related industries. A variety of career opportunities are available in Art, Advertising, Graphic Design, Animation, Journalism, and Multimedia. Working professionals or students who hold current certificates offered by the Office Technology Department, Photographics, Architecture and Design Department, **Requirements for the Certificate Required courses:** the Family and Consumer Sciences Department, and wish to BUSM 20 Principles of Business augment their design skills, would find this certificate beneficial.

| Requires | ments for the Certific | ate | BUSM 61 |
|---|---|---------------------------|---|
| ARTC 70 ARTC 171 | Computer Graphics: Introdu Computer Graphics 2: | uction 3.0 CSU 3.0 CSU | BUSM 62 |
| ARTD 15A ARTD 20 | Layout and Design With Qu Drawing: Beginning Design: Two Dimensional Total Units | | Students re |
| Recommen | ded Electives: | | Busine |
| ARTC 60 ARTC 74 ARTC 161 ARTC 165 ARTD 25A | Graphic Design: Lettering a Computer Graphics: Web Pa Graphic Design: Layout Illustration Painting: Beginning | | Accountin Certificat This special the student environmer prepares th |
| | c Trainer Aide I Education Department te E0802 | t | for compan will afford c |
| The Athletic experience and Athletic desiring a B with an adv | | | |
| Requires | BUSS 36 | | |
| PE 3 | First Aid and CPR | 3.0 CSU,UC | Special Info |
| PE 5 | <u>or</u> Advanced First Aid/CPR/ Emergency Response | 3.0 CSU | Students re Certificate a |
| PE 19 | Introduction to Care/Preve of Activity/Sports-Related | | Busine |
| PE 34 PE 92 | Fitness for Living Work Experience - Athletic Training | 3.0 CSU,UC 2.0 | Certificat The Busines |
| | Total Units | 11.0 | introduce th Managemen |
| Busine Manag Accounti Certificat This introdu world and t familiar wit the strategi the student | | | |

| BUSM 62 | Human Resource Management | 3.0 | | | |
|-------------|-------------------------------------|------------------|--|--|--|
| | Total Units | 9.0 | | | |
| Special Inf | Special Information: | | | | |
| Students re | ceiving financial aid need to decla | re the Level III | | | |
| Certificate | as their goal to meet Financial Aid | requirements. | | | |
| | | | | | |

Business Organization

and Management

3.0 CSU

Business: International - Level I Accounting and Management Department Certificate E0527

This specialized business certificate is intended to prepare the student to work in the unique and dynamic environment of international business. This program also prepares the student as a business management generalist for companies conducting international trade. This program will afford career opportunities for entry-level employment in international sales and marketing.

Requirements for the Certificate Required courses:

| | Total Units | 9.0 | |
|---------|-----------------------------|-----|--------|
| BUSS 36 | Principles of Marketing | 3.0 | CSU |
| | Business | | |
| BUSM 51 | Principles of International | 3.0 | CSU |
| BUSM 20 | Principles of Business | 3.0 | CSU,UC |
| | | | |

Special Information:

Students receiving financial aid need to declare the Level III Certificate as their goal to meet Financial Aid requirements.

Business: Management - Level I Accounting and Management Department Certificate E0525

The Business Management - Level I Certificate is designed to ntroduce the student to the role of management in business. Management is the efficient use of human and capital esources to accomplish organizational objectives. Students vill be exposed to the terms, trends, organizational structure, and opportunities inherent in business management. Upon completion of the Business: Management - Level I Certificate students may qualify for an entry-level management position in California's diverse economy.

Requirements for the Certificate Required courses:

| tificate may aid business world. | BUSM 20 BUSM 61 | Principles of Business Business Organization and Management | 3.0 CSU,UC 3.0 CSU |
|-------------------------------------|--------------------|---|-----------------------|
| | BUSS 36 | Principles of Marketing | 3.0 CSU |
| 3.0 CSU,UC | | Total Units | 9.0 |

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Special Information:

Students receiving financial aid need to declare the Level III Certificate as their goal to meet Financial Aid requirements.

Business: Retail Management - Level I

Accounting and Management Department Certificate E0500

Introductory statement: This introductory certificate exposes students to the business world and the role of retail distribution. Students become familiar with careers in retail management, as well as the latest trends in this fast changing field. This certificate may aid the student's search for an entry-level job in retail management.

Requirements for the Certificate Required courses:

| BUSO 25 | Business Communications | 3.0 | CSU |
|---------|--|------|--------|
| CISB 15 | Microcomputer Applications | 4.0 | CSU,UC |
| FASH 62 | Retail Store Management and Merchandising | 3.0 | CSU |
| | <u>or</u> | | |
| BUSS 50 | Retail Store Management and Merchandising | 3.0 | |
| | Total Units | 10.0 | |

Special Information:

Students receiving financial aid need to declare the Level III Certificate as their goal to meet Financial Aid requirements.

Business: Small Business Management - Level I Accounting and Management Department Certificate E0529

Small Business has been described as the engine of change within the economy. The Business: Small Business Management - Level I Certificate exposes students to the fundamentals of managing and planning a small business. Upon completion students may qualify for an entry-level management position in a small business. Entrepreneurs may use this certificate as a means to plan and develop new business ventures.

Requirements for the Certificate Reauired courses:

| | Total Units | 9.0 | |
|---------|---------------------------|-----|--------|
| BUSS 36 | Principles of Marketing | 3.0 | CSU |
| BUSM 66 | Small Business Management | 3.0 | CSU |
| BUSM 20 | Principles of Business | 3.0 | CSU,UC |

Special Information:

Students receiving financial aid need to declare the Level III Certificate as their goal to meet Financial Aid requirements.

Business: Workplace Competencies Business Administration Department Certificate E0532

This certificate program is designed for the student thinking about joining the professional workforce or seeking current job advancement. It covers the most often listed requirements for employment and iob advancement including professional communication, appearance and life management.

Requirements for the Certificate Reauired courses:

| BUSA 68 | Business Mathematics | 3.0 | |
|---------|------------------------------|---------|-----|
| BUSO 5 | Business English | 3.0 | |
| BUSO 26 | Oral Communications for Busi | ness3.0 | |
| FASH 15 | Fashion Strategies | 3.0 | CSU |
| FCS 41 | Life Management | 3.0 | CSU |
| | Total Units | 15.0 | |

Children's Program Certificate: General - Level I

Child Development Certificate E1326

The Children's Program Certificate: General - Level I is designed for the student who desires general knowledge about child development and who has an interest or awareness of teaching young children. This certificate meets Title 22 education requirements for fully gualified teachers.

Requirements for the Certificate Reauired courses:

| CHLD 1 | Child, Family and Community | 3.0 | CSU,UC | |
|--|-------------------------------|------|--------|--|
| CHLD 5 | Principles/Practices | 3.0 | CSU | |
| | in Child Development Programs | | | |
| CHLD 6 | Survey of Child | 3.0 | CSU | |
| | Development Curriculum | | | |
| CHLD 10 | Child Growth and Development | 3.0 | CSU,UC | |
| | <u>or</u> | | | |
| CHLD 10H | Child Growth and Development | 3.0 | CSU,UC | |
| | - Honors | | | |
| | Total Units | 12.0 | | |
| CIS Professional Certificate in Database Management - Microcomputers Computer Information Systems Department Certificate E0715 | | | | |

This curriculum is designed for returning CIS professionals

with several years of experience or current students who have completed several CIS courses. This program will prepare the student to work and manage data using a PCbased Database Management System. The program covers the major topics of the Microsoft MOUS certification exam for Access.

Requirements for the Certificate Reauired courses:

| CISD 11 | Database Management - Microsoft Access | 4.0 | CSU |
|---------|--|------|-----|
| CISD 14 | Advanced Database Management – Microsoft Access | 4.0 | |
| CISD 21 | Database Management — Microsoft SQL Server | 4.0 | |
| CISD 40 | Database Design | 3.0 | |
| | Total Units | 15.0 | |

CIS Professional Certificate in Object-Oriented Design & Programming

Computer Information Systems Department

Certificate E0723

This certificate will provide the basic knowledge for developing a model and creating a design for business application programs using object-oriented approach and UML.

Requirements for the Certificate Reauired courses:

| neguneace | neganea courses. | | | | |
|-----------|---------------------------------------|------|--------|--|--|
| CISP 10 | Principles of Object-Oriented Design | | 2.0 | | |
| CISP 11 | Programming in Visual Basic CSU,UC | | 4.0 | | |
| | <u>or</u> | | | | |
| CISP 21 | Programming in Java | 4.0 | CSU,UC | | |
| | <u>or</u> | | | | |
| CISP 31 | Programming in C++ | 4.0 | CSU,UC | | |
| | <u>or</u> | | | | |
| CISP 41 | Programming in C# | 4.0 | | | |
| CISP 14 | Advanced Visual Basic Program | ming | 4.0 | | |
| | <u>or</u> | | | | |
| CISP 24 | Advanced Java Programming | 4.0 | | | |
| | <u>or</u> | | | | |
| CISP 34 | Advanced C++ Programming | 4.0 | CSU,UC | | |
| | <u>or</u> | | | | |
| CISP 44 | Advanced Programming in C# | 4.0 | | | |
| | Total Units | 10.0 | | | |
| | | | | | |

CIS Professional Certificate in Windows Operating System Administration.

Computer Information Systems Department Certificate E0720

This curriculum is designed for returning CIS professionals with several years of experience or current students who have completed several CIS courses. This program will prepare the student to develop skills to install, manage/administer, and troubleshoot Microsoft Windows workstations and server operating system. The courses in this certificate cover the major topics of industry standard certification exams.

Requirements for the Certificate Reauired courses:

| | Total Units | 8.0 | |
|---------|-----------------------------|-----|-----|
| | Administration | | |
| CISN 24 | Microsoft NT Network System | 4.0 | CSU |
| CISN 21 | Windows Operating System | 4.0 | CSU |

CIS Professional Certificate in C# Programming

Computer Information Systems Department Certificate E0722

This certificate is designed for returning CIS professionals with several years of experience or current students who have completed several CIS courses. This program prepares the student to develop applications using C# for Windows or Web based programs.

Requirements for the Certificate Required courses:

| CISD 11 | Database Management — Microsoft Access | 4.0 |
|---------|--|------|
| CISD 21 | <u>or</u> Database Management — Microsoft SQL Server | 4.0 |
| | <u>or</u> | |
| CISD 31 | Database Management – Oracle | 4.0 |
| CISP 10 | Principles of Object-Oriented Design | 2.0 |
| CISP 41 | Programming in C# | 4.0 |
| CISP 44 | Advanced Programming in C# | 4.0 |
| | Total Units | 14.0 |

CIS Professional Certificate in LINUX Computer Information Systems Department Certificate E0796

This certificate is designed for returning CIS professionals with several years of experience or current students who have completed several CIS courses. This program will prepare the student to install, manage, and troubleshoot workstations, servers, and Local Area Networks using the Linux operating system. The certificate covers the major topics of an industry standard certification exam for Linux.

Requirements for the Certificate Required courses:

| | Total Units | 12.0 | | |
|---------|-------------------------------|------|-----|--|
| CISW 31 | Web Servers | 4.0 | | |
| CISN 34 | LINUX Networking and Security | 4.0 | CSU | |
| CISN 31 | Linux Operating System | 4.0 | CSU | |

CIS Professional Certificate in Network Security

Computer Information Systems Department Certificate E0721

This curriculum is designed for returning CIS professionals with several years of experience or current students who have completed several CIS courses. This program is aimed to help students develop skills to design, implement, and maintain secured networks. The courses examine Firewall and VPN in various environments and platforms, use network protocol analyzing technology as a security tool to protect the networks from attacks, and illustrate network vulnerabilities from a hacker's perspective. This program will prepare students to explain fundamental concepts of network security, identify network vulnerabilities and attacks, and use various protocol analyzers to detect network attack and troubleshoot network problems. Individual courses may assist students in preparing for related industry certification exams.

Requirements for the Certificate *Required courses:*

| CISS 21 | Network Vulnerabilities | 4.0 | CSU |
|---------|-------------------------|-----|-----|
| | and Countermeasures | | |
| | | | |

- CISS 23 Network Analysis and NIDS 4.0 CSU
- CISS 25 Network Security and Firewalls 4.0 CSU Total Units 12.0

CIS Professional Certificate in SOA and Web Services Computer Information Systems Department Certificate E0724

This certificate is designed for returning CIS professionals with several years of experience or current students who have completed several CIS courses. This program will help the student understand the concepts and theories underlying service oriented architecture (SOA), XML technologies (DTD, XSD, XLST, XQuery and XPath), and Web services technologies (UDDI, WSDL and SOAP).

Requirements for the Certificate *Required courses*:

| negunea | vurjej. | | |
|---------|-------------------------------|-----|--|
| CISW 41 | XML Secure Programming | 3.0 | |
| CISW 49 | Service Oriented Architecture | 3.0 | |
| | Concepts & Practice | | |
| | Total Units | 6.0 | |
| | | | |

CIS Professional Certificate in SQL Computer Information Systems Department Certificate E0730

This certificate is designed for returning CIS professionals with several years of experience or current students who have completed several CIS courses. This program will prepare the student to view and update databases, create and maintain database objects, and develop programs to automate database functions.

Requirements for the Certificate *Required courses:*

| | Total Units | 11.0 |
|---------|------------------------------|------|
| CISD 40 | Database Design | 3.0 |
| CISD 31 | Database Management - Oracle | 4.0 |
| | – Microsoft SQL Server | |
| CISD 21 | Database Management | 4.0 |

CIS Professional Certificate in C++ Programming Computer Information Systems Department Certificate E0714

This curriculum is designed for returning CIS professionals with several years of experience or current students who have completed several CIS courses. This program will prepare the student to write applications in C++ and Visual C++ and provide a basic understanding of Object-Oriented Design.

Requirements for the Certificate Required courses:

| neguneu co | uises. | | |
|------------|--|------|--------|
| CISD 11 | Database Management — Microsoft Access | 4.0 | |
| CISD 21 | <u>or</u> Database Management — Microsoft SQL Server | 4.0 | |
| | <u>or</u> | | |
| CISD 31 | Database Management – Oracle | 4.0 | |
| CISP 10 | Principles of Object-Oriented | 2.0 | |
| | Design | | |
| CISP 31 | Programming in C++ | 4.0 | CSU,UC |
| CISP 34 | Advanced C++ Programming | 4.0 | CSU,UC |
| | Total Units | 14.0 | |

CIS Professional Certificate in Java Programming

Computer Information Systems Department Certificate E0700

This curriculum is designed for returning CIS professionals with several years of experience or current students who have completed several CIS courses. This program will prepare the student to develop applications using Java and includes techniques in Object Oriented Programming, web-based applets, servlets, navigating databases, and JavaBeans.

| Requirements for the Certificate | | | |
|----------------------------------|---|------|--------|
| Required co | urses: | | |
| CISD 11 | Database Management - Microsoft Access | 4.0 | CSU |
| | <u>or</u> | | |
| CISD 21 | Database Management — Microsoft SQL Server | 4.0 | |
| | <u>or</u> | | |
| CISD 31 | Database Management - Oracle | 4.0 | |
| CISP 10 | Principles of Object-Oriented | 2.0 | |
| | Design | | |
| CISP 21 | Programming in Java | 4.0 | CSU,UC |
| CISP 24 | Advanced Java Programming | 4.0 | |
| | Total Units | 14.0 | |

CIS Professional Certificate in Networking

Computer Information Systems Department Certificate E0716

This curriculum is designed to help students develop skills to administer and manage the heterogeneous corporate network. The courses examine and illustrate communication protocols with various industrial leading network operating systems. The main objective of the certificate is to integrate and enhance knowledge for network administration. However, individual courses may assist students in preparing for related certification exams.

Requirements for the Certificate *Required courses:*

| CISN 11 | Telecommunications/ Networking Fundamentals | 4.0 | CSU |
|---------|---|------|-----|
| CISN 24 | Microsoft NT Network System Administration | 4.0 | CSU |
| CISN 41 | Novell Netware Systems Administration | 4.0 | CSU |
| | or | | |
| CISN 34 | LINUX Networking and Security | 4.0 | CSU |
| CISN 51 | Cisco CCNA Networking Fundamentals and Routing | 4.0 | CSU |
| | Total Units | 16.0 | |

CIS Professional Certificate in Oracle Computer Information Systems Department Certificate E0717

This curriculum is designed for returning CIS professionals with several years of experience or current students who have completed several CIS courses. This program will prepare the student to install, create, manage, administer, and troubleshoot an Oracle database. The program covers the major topics of an industry standard certification exam for Oracle.

Requirements for the Certificate *Required courses:*

| | Total Units | 11.0 |
|---------|--------------------------|------|
| CISD 40 | Database Design | 3.0 |
| CISD 32 | Oracle Forms and Reports | 4.0 |
| CISD 31 | Database Management | 4.0 |

CIS Professional Certificate in Telecommunications **Computer Information Systems Department** Certificate E0718

This curriculum is designed for returning CIS professionals with several years of experience or current students who have completed several CIS courses. This program will prepare the student to develop a fundamental understanding of local area networks, wide area networks, and telecommunications.

Requirements for the Certificate Required courses:

| CISN 11 | Telecommunications Networking Fundamentals | 4.0 CSU |
|---------|---|---------|
| CISN 24 | Windows Network System Administration | 4.0 |
| CISN 51 | CISCO Networking Fundamentals and Routing | 4.0 |
| | Total Units | 12.0 |

CIS Professional Certificate in Visual Basic Programming **Computer Information Systems Department** Certificate E0719

This curriculum is designed for returning CIS professionals with several years of experience or current students who have completed several CIS courses. This program will prepare the student to develop applications using Visual Basic for Windows or Web based systems.

Requirements for the Certificate Reauired courses:

| CISP 10 | Principles of Object-Oriented Programming | 2.0 | |
|---------|---|------|--------|
| CISP 11 | Programming in Visual Basic | 4.0 | CSU,UC |
| CISP 14 | Advanced Visual Basic Programming | 4.0 | CSU,UC |
| CISD 11 | Database Management – Microsoft Access | 4.0 | |
| | <u>or</u> | | |
| CISD 21 | Database Management — Microsoft SQL Server | 4.0 | |
| | <u>or</u> | | |
| CISD 33 | Database Management – Oracle | 4.0 | |
| | Total Units | 14.0 | |
| | | | |
| | | | |
| | | | |

CIS Professional Certificate in Web Programming

Computer Information Systems Department Certificate E0713

This curriculum is designed for returning CIS professionals with several years of experience or current students who have completed several CIS courses. This program will prepare the student to develop programming skills needed to create effective Web pages and websites using various scripting or markup languages like JavaScript, VBScript, HTML, DHTML, and XML. Includes practical knowledge of how to install, manage, and troubleshoot Web servers and access information from a database server. Helps students in obtaining programming jobs with companies with a Web presence.

Requirements for the Certificate Required courses:

| CISW 31 | Web Servers Total Units | 4.0 12.0 | |
|--------------------|--|--------------------|-----|
| CISW 11 CISW 24 | The Internet Advanced Web Programming | 4.0 4.0 | CSU |

Coaching Physical Education Department

Certificate E0804

This certificate program is intended to prepare students for employment as high school (walk-on) coaches, but is appropriate for coaches at various levels.

Requirements for the Certificate Reauired courses: Charte Off -:---

| negunea | courses | | | | | |
|---|------------------------------|------|--------|--|--|--|
| PE 13 | Sports Officiating | 3.0 | CSU,UC | | | |
| PE 34 | Fitness for Living | 3.0 | CSU,UC | | | |
| PE 44 | Theory of Coaching | 3.0 | CSU | | | |
| PE 81 | Work Experience for Coaching | 2.0 | | | | |
| | Total Units | 11.0 | | | | |
| Exit Requirement: First Aid and CPR Certification | | | | | | |
| | | | | | | |
| | | | | | | |

Culinary Arts - Level I

Consumer Science and Design Technologies Certificate E1334

The Culinary Arts - Level I Certificate program will prepare students for food production job opportunities in the food service industry. The program emphasizes basic food preparation, commercial food production, and food safety and sanitation. Six units of elective courses allow the student to tailor the program to meet specific needs.

Requirements for the Certificate Reauired courses:

| | i) units from: | | |
|--------|------------------------------|-----|-----|
| PLUS | | | |
| NF 20 | Principles of Foods With Lab | 3.0 | CSU |
| | in Restaurant/Hospitality | | |
| HRM 91 | Work Experience | 1.0 | CSU |
| HRM 54 | Basic Cooking Techniques | 3.0 | CSU |
| HRM 52 | Food Safety and Sanitation | 1.5 | CSU |

| | Total Units | 14.5 | |
|--------|-----------------|---------|--|
| NF 62 | Meal Management | 3.0 CSU | |
| NF 61 | Creative Foods | 3.0 | |
| HRM 62 | Catering | 3.0 CSU | |
| HRM 61 | Menu Planning | 3.0 CSU | |
| | | | |

Data Entry

Office Technology Department Certificate E0791

This program is intended to prepare students for employment as data entry operators, customer service representatives, receptionists, or entry-level office support staff positions. Training in a variety of computer skills is emphasized. Students desiring a Bachelor's Degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses.

Requirements for the Certificate Required courses:

| COMP 2 | Intermediate Computer Keyboarding | 4.0 | |
|---------|--------------------------------------|------|--------|
| COMP 12 | Office Computer Applications | 4.0 | CSU,UC |
| | <u>or</u> | | |
| CISB 15 | Microcomputer Applications | 4.0 | CSU,UC |
| COMP 18 | Data Entry | 3.0 | |
| | Total Units | 11.0 | |
| | | | |
| | | | |
| | | | |
| | | | |

Educational Paraprofessional - Level I Psychology and Education Department Certificate E2187

This certificate program in the field of Education prepares paraprofessionals in a variety of areas, emphasizing working with children to enhance their learning and development. Students will be able to assist classroom teachers in working with children of all ages and backgrounds. These classes assist students to prepare to pass the CBEST, as well.

Requirements for the Certificate Reauired courses:

| CHLD 1 | Child, Family and Community | 3.0 | CSU,UC |
|---------|-----------------------------|------|--------|
| EDUC 10 | Introduction to Education | 3.0 | CSU,UC |
| ENGL 68 | English - Writing | 3.0 | |
| MATH 51 | Elementary Algebra | 4.0 | |
| | Total Units | 13.0 | |

Electronic Assembly and Fabrication **Electronics and Computer Technology Department**

Certificate E0929

The Electronic Assembly and Fabrication Certificate is intended to prepare students to enter the electronics field as assembly and fabrication technicians. The program provides a series of courses to meet the needs of industry in assembly, soldering/de-soldering skills and fabrication for both throughhole and surface mount devices (SMD). Included are skills for various types of cabling and connections.

Electronic fundamentals (test instruments, basic electrical measurements, color-codes, schematic symbols, device outlines, etc.) are provided in the introductory courses. Complete surface mount technology (SMT) skills are taught with a culmination in the IPC7711/IPC7721 rework and repair of electronic assemblies certification. Recertification is required every two years. ELEC 63 is a prep course for the recertification.

Requirements for the Certificate Reauired courses:

ELEC 63

| ELEC 50A | Electronic Circuits (DC) | 4.0 | CSU | | | |
|------------------------|--|-----|-----|--|--|--|
| ELEC 61 | Electronic Assembly and Fabrication | 2.0 | CSU | | | |
| ELEC 62 | Advanced Surface Mount Assembly and Rework | 2.0 | | | | |
| EST 50 | Electrical Fundamentals for Cable Installations | 4.0 | | | | |
| Total Units 12.0 | | | | | | |
| Recommended Electives: | | | | | | |

Electronic Assemblies Recertification

| Electronic Systems Technology |
|--------------------------------------|
| - Level I |
| Electronics and Computer |
| Technology Department |
| C |

-

Certificate E0990

This is a fast-track certificate program within the fields of information and electronic technology. These fields are growing at rapid rates. The program provides job skills in the areas of low voltage cable and wire installations used in the telephone industry, computer networks (business and home), home theater, home automation, and home security systems (integrated home systems). Typical job titles in these areas are data or cable technician, low-voltage wiring technician, home theatre installer, consumer electronics service technician and security system installer. The program prepares the student for the California State Contractors C-7 Low Voltage Systems license. The program encompasses a total of 27-29 units comprising two levels of certification. The level I certification (15-16 units) develops skills in electrical fundamentals, fabrication techniques, cabling and wiring standards for voice, video and data, and basic computer skills in word processing. spreadsheets, database and the Internet. Level II certification (12-13 units) adds customer relations and advanced skills in the installation, calibration, setup, maintenance, and troubleshooting of home theater systems, home automation, and home security systems. Either a course on preparing for the C-7 license or troublsehooting digital TV with LCD, plasma, and DLP video displays is included.

Requirements for the Certificate *Required courses:*

| ELEC 11 | Technical Applications in Microcomputers | 3.0 | CSU |
|---------|--|------|--------|
| | <u>or</u> | | |
| CISB 15 | Microcomputer Applications | 4.0 | CSU,UC |
| EST 50 | Electrical Fundamentals for Cable Installations | 4.0 | |
| EST 52 | Fabrication Techniques for Cable Installations | 4.0 | |
| EST 54 | Cabling and Wiring Standards | 4.0 | |
| | Total Units | 15.0 | - 16.0 |

Emergency Medical Technician - Level I

Medical Services Department Certificate E1212

Approved by the Los Angeles County and State Departments of Health. Emphasizes the development of skills to recognize symptoms of illnesses and injuries as well as the proper procedures of pre-hospital emergency care. Awards an EMT-I Course Completion Certificate necessary for many jobs in emergency care and is prerequisite for entry into a Paramedic program or most fire department iobs.

Requirements for the Certificate Reauired courses:

EMT 90 Emergency Medical Technician | 10.0 Total Units 10.0

Special Information:

To remain in the program, students must maintain a grade of "C" or better in the course.

Completion of the required course, which includes both written and practical qualifying examinations, will award the student an EMT-I Course Completion Certificate. Students are then eligible for certification by taking and passing the National Registry EMT-I certifying exam. This course is a prerequisite for the Paramedic Program and is required by most fire departments before the student may be hired as a firefighter.

Application Requirements and Selection Procedures

Aplication Requirements:

- a) Applicant must be 18 years of age upon entrance into the course.
- b) High school graduate or equivalent.
- c) File a College application and be accepted as a student at Mt. San Antonio College.
- d) A physical examination, proof of certain immunizations, current certification in CPR, and a criminal background check are required of all students prior to entrance into the clinical setting. Forms and information will be provided upon entry into the course.

Selection Procedure:

The course is open to all students who meet the application requirements. All Applicants are required to meet the Essential Functions in the Emergency Medical Technician Program.

Physical Demands:

- Perform prolonged, extensive, or considerable standing/walking, lifting positioning, pushing, and/or transferring patients
- Possess the ability to perform fine motor movements with hands and fingers
- Possess the ability for extremely heavy effort (lift and carry at least 125 pounds
- Perform considerable reaching, stooping, bending, kneeling, and crouching

Sensory Demands:

- <u>Color vision</u>: ability to distinguish and identify colors (may be corrected with adaptive devices)
- *Distance vision:* ability to see clearly 20 feet or more
- <u>Depth perception</u>: ability to judge distance and space relationships
- *Near vision:* ability to see clearly 20 inches or less
- Hearing: able to recognize a full range of tones

Working Environment:

- May be exposed to infectious and contagious disease, without prior notification
- Regularly exposed to the risk of blood borne diseases
- Exposed to hazardous agents, body fluids and wastes
- Exposed to odorous chemicals and specimens
- Subject to hazards of flammable, explosive gases
- Subject to burns and cuts
- Contact with patients having different religious, culture, ethnicity, race, sexual orientation, psychological and physical disabilities, and under a wide variety of circumstances
- Handle emergency or crisis situations
- Subject to many interruptions
- Requires decisions/actions related to end of life issues
- Exposure to products containing latex

English Language Skills:

Although proficiency in English is not a criteria for admission into the nursing program, students are encouraged to be able to speak, write and read English to complete classes successfully and to ensure safety for themselves and for others.

Fashion Design - Computer-Aided Consumer Science and Design Technologies Certificate E1329

The Fashion Design - Computer-Aided certificate builds upon basic skills and provides students with intermediate technical and technological skills in fashion design and patternmaking. With a diversified skill base that includes CAD technology, students will be better prepared for above entry-level positions and/or advancement to new career opportunities.

Requirements for the Certificate *Required courses:*

| | Total Units | 14.0 | |
|---------|--|------|-----|
| FASH 26 | Fashion Computer Assisted Design | 2.0 | |
| FASH 25 | Fashion Computer-Assisted Drawing | 3.0 | |
| FASH 24 | Fashion Patternmaking by Computer | 3.0 | |
| FASH 21 | Patternmaking I | 3.0 | CSL |
| FASH 20 | Illustration for Fashion and Costume Design | 3.0 | |
| | | | |

Fashion Merchandising - Level I Consumer Science and Design Technologies Certificate E1388

The Fashion Merchandising Level I Certificate prepares the holder for entry-level positions in a variety of retail merchandising, manufacturing, and promotion businesses.

Requirements for the Certificate Reauired courses:

| | Total Units | 15.0 | |
|---------|---|------|--------|
| FASH 30 | Fashion Design and Product Development I | 3.0 | |
| FASH 17 | Textiles | 3.0 | CSU,UC |
| FASH 15 | Fashion Strategies | 3.0 | CSU |
| FASH 10 | Clothing Construction I | 3.0 | CSU |
| FASH 8 | Introduction to Fashion | 3.0 | CSU |
| | | | |

Fire Administration Fire Technology Department Certificate E2130

The Fire Administration Certificate prepares public agency firefighters or private fire personnel for career advancement and provides personal development. This certificate prepares students for positions as chief officers such as battalion chief, deputy chief, or division chief. Content focuses on advanced job skills in life safety, interpersonal skills, human resource management, investigation, command presence, and implementation of local/state fire regulations. This certificate meets the requirements of the California State Board of Fire Services Certified Fire Officer Program.

Requirements for the Certificate Required courses:

| FIRE 20 | Fire Instructor 1A | 2.0 |
|---------|-----------------------|------|
| FIRE 21 | Fire Instructor 1B | 2.0 |
| FIRE 30 | Fire Management 1 | 2.0 |
| FIRE 40 | Fire Prevention 1A | 2.0 |
| FIRE 41 | Fire Prevention 1B | 2.0 |
| FIRE 50 | Fire Command 1A | 2.0 |
| FIRE 51 | Fire Command 1B | 2.0 |
| FIRE 60 | Fire Investigation 1A | 2.0 |
| | Total Units | 16.0 |

Fire Management Fire Technology Department Certificate E2131

The Fire Management Certificate prepares public agency firefighters or private fire personnel for career advancement and provides personal development. This certificate prepares students for career advancement as supervisors and managers. The student will develop leadership, management, and supervisory competencies including leadership philosophy, ethics, diversity, and the difference between managing and leading people. Content focuses on job skills in organizational management, human resources, risk management, diversity, interpersonal skills, personnel and equipment, fire ground tactics and strategy, and investigation techniques. This certificate meets the requirements of the California State Board of Fire Services Certified Fire Officer Program.

Requirements for the Certificate Required courses:

- FIRE 7 Fire Fighting Tactics and Strategy 3.0 CSU
- FIRE 8 Fire Company Organization 3.0 CSU and Management

| FIRE 10 | Arson and Fire Investigation | 3.0 CSU |
|---------|------------------------------|---------|
| FIRE 20 | Fire Instructor 1A | 2.0 |
| FIRE 21 | Fire Instructor 1B | 2.0 |
| FIRE 30 | Fire Management 1 | 2.0 |
| FIRE 50 | Fire Command 1A | 2.0 |
| | Total Units | 17.0 |

Foster Care

COMP 62

Desktop Publishing

With QuarkXpress

4.0

Fitness Specialist/Personal Trainer Physical Education Department Certificate E0808

The Fitness Specialist/Personal Trainer Certificate prepares students for careers as personal trainers, health/fitness professionals in corporate fitness facilities, wellness centers and public/private health clubs. The Fitness Specialist/Personal Trainer Certificate curriculum is designed to prepare students who wish to take exams offered by the American Council on Exercise (ACE), the American College of Sports Medicine (ACSM) and other nationally recognized organizations. Technical skills necessary for implementation of a safe, effective and motivational physical fitness program are presented.

Requirements for the Certificate Required courses:

| | NF 10 | Nutrition for Personal Health and Wellness | 3.0 | CSU |
|------------------------|----------|---|------|-----|
| | PE 15 | Administration of Fitness Programs | 2.0 | |
| | PE 24 | Kinesiology | 2.0 | |
| | PE 38 | Physiology of Exercise for Fitness | 3.0 | |
| | PE 39 | Techniques of Fitness Testing | 2.0 | CSU |
| | PE 40 | Techniques of Teaching Cardiovascular Exercise | 2.0 | |
| | PE 41 | Techniques of Teaching Weight Training | 2.0 | |
| | PE 85 | Fitness Specialist Internship | 1.0 | |
| | | Total Units | 17.0 | |
| Recommended Electives: | | | | |
| | DNCE 39A | Alignment and Correctives I | | |
| | | | | |

Child Development AHIS 5 Certificate E1317 This certificate requires the completion of twelve (12) AHIS 6 units. **Requirements for the Certificate Required courses:** CHLD 1 Child, Family and Community 3.0 CSU CHLD 10 Child Growth and Development 3.0 CSU.UC **Political Science** or CHLD 10H Child Growth and Development 3.0 CSU.UC - Honors or SOC 15 Child Development 3.0 CSU.UC CHLD 68 Children With Special Needs 3.0 CSU CHLD 95 Issues in Foster Parenting 1.0 CHLD 96 **Discipline and Adjustment** 1.0 in Foster Care CHLD 97 Independent Living 1.0 **Through Foster Care Total Units** 12.0 **Gallery Design/Operation and Art** Profession activities. **Fine Arts** Certificate E1020 This certificate is designed to provide students with the necessary theoretical and practical knowledge and skills to Required courses: display an esthetically and conceptually effective art G exhibition. Students will acquire the knowledge of G various/diverse artistic media and develop a careeroriented artistic perspective. **Requirements for the Certificate Required courses:** ARTG 20 Art, Artists and Society 3.0 CSU 3.0 CSU ARTG 21A Introduction to Exhibition Production ARTG 21B Intermediate Exhibition 3.0 CSU Production Exhibition Design ARTG 22A 1.0 and Art Gallery Operation Work Experience PLUS Select one (1) course from: COMP 60 Desktop Publishing 4.0 CSU With InDesign or PageMaker

PIIIS Select one (1) course from: History of Western Art: 3.0 CSU,UC Renaissance Through Modern 3.0 CSU,UC History of Modern Art **Total Units** 17.0

Geographic Information Systems History, Art History, Geography,

Certificate E2200

The certificate program in Geographic Information Systems provides students in various disciplines the opportunity to develop expertise in the creation, manipulation, analysis, and display of geographic information. This exciting technology has applications in many fields including environmental assessment, analysis of natural hazards, site analysis for business and industry, criminal justice, real estate, location analysis, resource management, land use planning, and global changes and systems modeling.

This program was developed with two intended groups in mind: 1. Currently enrolled students who wish to focus their training and skills for a career in GIS 2. Currently employed persons who need or wish to enhance their knowledge of GIS for better understanding or to support their current job

The program starts with a set of basic courses in geographic information technology and map reading.

Requirements for the Certificate

| neguneu co | ui ses. | | |
|------------|----------------------------------|-----|--------|
| GEOG 3 | Map Reading and Interpretation | 3.0 | CSU |
| GEOG 10 | Introduction | 3.0 | CSU,UC |
| | to Geographic Information Syster | ns | |
| GEOG 11 | Intermediate GIS | 3.0 | |
| | Total Units | 9.0 | |
| | | | |

Hospitality: Food Services

Consumer Science and Design Technologies Certificate E1390

This certificate prepares the holder to enter the food service field as a skilled food service worker in either food preparation or service.

Requirements for the Certificate Reauired courses:

| | Total Units | 7.5 | |
|--------|-----------------------------|-----|-----|
| | Management | | |
| HRM 53 | Dining Room Service | 3.0 | CSL |
| HRM 52 | Food Safety and Sanitation | 1.5 | CSL |
| HRM 51 | Introduction to Hospitality | 3.0 | CSL |

Hospitality: Hospitality Management - Level I **Consumer Science and Design Technologies** Certificate E1332 The Hospitality: Hospitality Management - Level I Certificate prepares the holder for an entry-level position within the hospitality industry. **Requirements for the Certificate** Reauired courses: HRM 51 Introduction to Hospitality 3.0 CSU HRM 53 Dining Room Service 3.0 CSU Management HRM 70 Introduction to Lodging

Management HRM 70 Introduction to Lodging 3.0 CSU HRM 91 Work Experience 1.0 CSU in Restaurant/Hospitality Total Units 10.0

Hospitality: Restaurant Management - Level I

Consumer Science and Design Technologies Certificate E1333

The Hospitality: Restaurant Management - Level I Certificate prepares the holder for an entry-level position within a restaurant.

Requirements for the Certificate *Required courses:*

| | Total Units | 8.5 | |
|--------|-----------------------------|-----|-----|
| | in Restaurant/Hospitality | | |
| HRM 91 | Work Experience | 1.0 | CSU |
| | Management | | |
| HRM 53 | Dining Room Service | 3.0 | CSU |
| HRM 52 | Food Safety and Sanitation | 1.5 | CSU |
| HRM 51 | Introduction to Hospitality | 3.0 | CSU |
| | | | |

Information and Operating Systems Security

Computer Information Systems Department Certificate E0731

This certificate will provide the fundamental knowledge needed to analyze the risk to one's network and systems and the steps necessary in order to select and deploy the appropriate countermeasures to reduce the computer's exposure to network threats.

Requirements for the Certificate *Required courses:*

| | Total Units | 10.0 |
|---------|-----------------------------|------|
| CISS 15 | Operating Systems Security | 4.0 |
| | Systems Security | |
| CISS 13 | Principles of Information | 4.0 |
| CISS 11 | Practical Computer Security | 2.0 |
| | | |

Introduction to Computer Information Technology

Computer Information Systems Department Certificate E0712

This program is designed as a foundational introduction to the computer and informational technology environment. This program will introduce the student to computer concepts, microcomputer applications, web/computer programming, and the Internet.

Requirements for the Certificate

Required courses:

| <u>or</u> CISB 15 Microcomp | uter Applications 4.0 | CSU,UC |
|--------------------------------|------------------------|---------------|
| | | |
| COMP 12 Office Comp | outer Applications 4.0 | CSU CSU,UC |
| CISW 11 The Interne | t 4.0 | CSU |
| CISB 11 Computer li | nformation Systems 3.5 | |

LVN 30-Unit Option - Career Mobility Track Nursing Department

Certificate E1202

In keeping with Section 1429 of the Board of Registered Nursing Rules and Regulations, completion of this certificate program entitles the student to apply for examination for licensure as a Registered Nurse in the State of California. This option is specifically designed for California licensees. Other states do not have this provision in their laws; therefore, endorsement for licensure may not be granted.

A certificate documenting completion is awarded at the end of the course of study. The student who elects to complete the 30-Unit Option track is not a graduate of the Associate of Science Degree Nursing Program at Mt. San Antonio College. Individuals who complete this track are not eligible to return to the college at a later date to complete a degree in nursing. LVN applicants must declare their educational goal at the time of application (30-Unit or Associate Degree). This decision is not subject to change at a later date.

Prerequisite Courses:

- 1. Human Anatomy, including a laboratory component, a minimum of four semester units.
- 2. Human Physiology, including a laboratory component, a minimum of four semester units.
- 3. Microbiology, including a laboratory component, a minimum of four semester units.

Non-course requirements:

- An overall grade point average of 2.5 for the Human Anatomy, Human Physiology, and Microbiology prerequisite courses with no grade less than a "C" for each course and no more than one repetition of any one of these courses.
- 2. A cumulative grade point average (GPA) of 2.5 for all college coursework completed.
- 3. Eligibility for Math 51
- 4. High school graduation or GED or academic degree from an accredited college/university in the United States.
- Possess a California Licensed Vocational Nurse license.
 Criminal background check and drug screening must
- be completed prior to any patient contact.
- A physical examination, including specific immunizations is required of candidates prior to the beginning of nursing classes.
- 8. Current Level C-Provider CPR certification
- 9. Nursing 70 Role Transition must be completed with a credit grade prior to entrance into the program. (NURS 70, Role Transition Due to the clinical component of NURS 70, applicants must submit their names to the Nursing Office for approval prior to enrollment in this course. Applicants must have completed all prerequisite courses prior to taking NURS 70. Applicants must provide proof of current Vocational Nurse License, physical, CPR card, Background Check, and drug testing prior to the start of class.)

Requirements for the Certificate Reauired courses:

| neguneu courses. | | | | | | |
|------------------|--|------|-----|--|--|--|
| NURS 5 | Psychiatric Nursing | 3.0 | CSU | | | |
| NURS 8 | Medical-Surgical Nursing: Circulation and Oxygenation | 5.0 | CSU | | | |
| NURS 9 | Leadership in Nursing | 1.0 | CSU | | | |
| NURS 10 | Medical-Surgical Nursing: Integration/Regulation | 4.0 | CSU | | | |
| NURS 11 | Preceptorship in Nursing | 2.0 | CSU | | | |
| | Total Units | 15.0 | | | | |
| | | | | | | |

PSYC 1A must be completed prior to entrance into NURS 5, Psychiatric Nursing.

Selection Process:

Beginning Fall 2006, students applying for admission to the Nursing Program will be required to see either a counselor or educational advisor to verify their eligibility to enter the Nursing program.

Procedure:

Students must complete all course prerequisites prior to requesting an appointment for certifying readiness to enter into the Nursing program. Once eligibility has been established, students will enter on a first come first served basis. The eligibility appointment:

- a) Once a student has completed all course prerequisites, the student will then apply to the Nursing Department on an appointment basis.
- b) Students who have completed coursework at other colleges must bring the following information to their eligibility appointment:
 - Official transcripts of all college work completed at all colleges;
 - If the prerequisite courses were completed at another college, a course description and a copy of the course syllabus;
 - Students completing college coursework outside of the United States will need to have their transcripts evaluated by an approved international transcript evaluation agency and must bring the final evaluation to their appointment (students may be able to obtain a list of agencies from the Admissions Office).
 - Due to specific college deadlines for International Student applications, please inform the Counselor/Educational Advisor that this applies to you.
- c) All students will need to bring official proof of high

school graduation, GED, or college graduation from an accredited institution in the United States.

APPOINTMENTS FOR ELIGIBILITY VERIFICATION WILL ONLY BE MADE DURING THE FOLLOWING MONTHS:

- September 1 October 31
- March 1 April 30

Students should also be aware that once they have been admitted to the Nursing program and before beginning the Clinical portion of the program, they will need to be able to pass both a criminal background check, including a screening by the Office of Inspector General for welfare or Social Security fraud, as well as testing negative for drug use.

ALL APPLICANTS ARE REQUIRED TO MEET THE ESSENTIAL FUNCTIONS FOR SUCCESS IN THE NURSING PROGRAM.

Physical Demands:

- Perform prolonged, extensive, or considerable standing/walking, lifting positioning, pushing, and/or transferring patients
- Possess the ability to perform fine motor movements with hands and fingers
- Possess the ability for extremely heavy effort (lift/carry 50 lbs. or more)
- Perform considerable reaching, stooping, bending, kneeling, and crouching.

Sensorv Demands:

- *Color vision:* ability to distinguish and identify colors Μ (may be corrected with adaptive devices).
- М ■ *Distance vision:* ability to see clearly 20 feet or more
- **Depth perception:** ability to judge distance and space relationships
- Near vision: ability to see clearly 20 inches or less
- *<u>Hearing</u>*: able to recognize a full range of tones

Working Environment:

- May be exposed to infectious and contagious disease, without prior notification
- Regularly exposed to the risk of blood borne diseases
- Exposed to hazardous agents, body fluids and wastes
- Exposed to odorous chemicals and specimens
- Subject to hazards of flammable, explosive gases
- Subject to burns and cuts

| wide variety of circumstances | 8 |
|--|--------|
| while variety of circuitistatices | C |
| Handle emergency or crisis situations | Т |
| Subject to many interruptions | 2 |
| Requires decisions/actions related to end of life issues | n |
| Exposure to products containing latex | fı |
| English Language Skills: | R R |
| Although proficiency in English is not a criteria for | Ν |
| admission into the nursing program, students are | Ν |
| encouraged to be able to speak, write and read English to | Ν |
| complete classes successfully and to ensure safety for | Ν |
| themselves and for others. | |

psychological and physical disabilities, and under a

Contact with patients having different religious,

culture, ethnicity race, sexual orientation,

Machine Operator Aircraft Maintenance Technician & Manufacturing Technology Certificate E0956 This certificate provides a foundation of basic skills for employment in a variety of entry-level manufacturing positions.

| Requirer Required co | nents for the Certificate | | |
|-------------------------|---|------|-----------------|
| MFG 11 | Manual and CNC Manufacturing Essentials | 2.0 | CSU |
| MFG 12 | Advanced Manufacturing Processes | 2.0 | CSU |
| MFG 58 | Blueprint Reading for Manufacturing | 2.0 | |
| MFG 70 | Technical Mathematics - Manufacturing Applications | 2.0 | CSU |
| MFG 85 | Manual CNC (Computerized Numerical Contr | | CSU erations |
| PLUS | | | |
| Select one | (1) course from: | | |
| MFG 38 | MasterCAM I | 2.0 | CSU |
| MFG 39 | SurfCAM I | 2.0 | CSU |
| | Total Units | 12.0 | |

| S | & Manuf Certificat This certific 2-D, 3-D, ar machine sh functional Required | Maintenance Technician acturing Technology te E0927 cate provides a strong background nd Solids packages along with the nop theory and practice to input so data into the CAD/CAM system. ments for the Certificate | neces | | - Level Consume Certifica This certific agencies su Program fo Start, and S Coursewor | cate prepares students to work for uch as the Federal Supplemental N or Women, Infants and Children (V School Food Service as nutrition as k is designed to provide basic skill | pha nolog comm lutritic /IC), He ssistan s and | gies nunity on ead ts. |
|---|--|--|-------|------------|--|---|--|---|
| | Required c | | ~ ~ | 6611 | | e necessary to entry-level position that serve children. | s in nu | unuon |
| | MFG 11 MFG 38 | Manufacturing Processes I MasterCAM I | | CSU CSU | ' ² | | | |
| 0 | MFG 38 MFG 38B | Advanced MasterCAM | | CSU | Require Reauired of | ments for the Certificate | | |
| - | MFG 36B MFG 85 | Manual CNC Program | 2.0 | (30 | Level I as f | | | |
| | | Total Units | 6.0 | | HRM 52 | Food Safety and Sanitation | 1.5 | CSU |
| _ | | | 0.0 | | NF 20 | Principles of Foods With Lab | | CSU |
| | Nutriti | on Program Assistan | + - 1 | ا امریم | NF 25 | Essentials of Nutrition | 3.0 | CSU,U |
| | | er Science and Design Tech | | | | <u>or</u> | | |
| | Certificat | - | | 9.00 | NF 25H | Essentials of Nutrition - Honors | 3.0 | CSU,UO |
| | This certific | cate prepares students to work for | comn | nunity | | <u>or</u> | | |
| | | nd programs as nutrition assistant | | , | NF 10 | Nutrition for Personal Health | 3.0 | CSU |
| | Require | ments for the Certificate | | | | and Wellness | | |
| | Required c | | | | Plus the fo | ollowing courses: | | |
| | HRM 52 | Food Safety and Sanitation | 1.5 | CSU | NF 28 | Cultural and Ethnic Foods | 3.0 | CSU,UO |
| | NF 20 | Principles of Foods With Lab | 3.0 | CSU | CHLD 10 | Child Growth and Development | 3.0 | CSU,U |
| | NF 25 | Essentials of Nutrition | 3.0 | CSU,UC | CHLD 64 | Health, Safety and Nutrition | 3.0 | CSU |
| | | <u>or</u> | | | | of Young Children | | |
| | NF 25H | Essentials of Nutrition - Honors | 3.0 | CSU,UC | | Total Units | 16.5 | |
| | | <u>or</u> | | | | D | | |
| | NF 10 | Nutrition for Personal Health and Wellness | 3.0 | CSU | - Level | on Program Assistan II: Weight Managem | | |
| | NF 28 | Cultural and Ethnic Foods | 3.0 | CSU,UC | Progra | m Emphasis | | |

10.5

Total Units

ation 1.5 CSU th Lab 3.0 CSU 3.0 CSU,UC Honors 3.0 CSU,UC

3.0 CSU Health

| | Total Units | 16.5 | |
|---------|---|------|--------|
| CHLD 64 | Health, Safety and Nutrition of Young Children | 3.0 | CSU |
| CHLD 10 | Child Growth and Development | 3.0 | CSU,UC |
| NF 28 | Cultural and Ethnic Foods | 3.0 | CSU,UC |

sistant agement **Program Emphasis**

Consumer Science and Design Technologies Certificate E1336 This certificate prepares students to work as nutrition

assistants in the public or private sector. Coursework is designed to provide the basic skills and knowledge necessary for entry-level positions in a variety of businesses, agencies and programs that focus on weight management.

Requirements for the Certificate Required courses: Level I as follows: **HRM 52**

Food Safety and Sanitation 1.5 CSU NF 20 Principles of Foods With Lab 3.0 CSU NF 25 **Essentials of Nutrition** 3.0 CSU,UC or NF 25H Essentials of Nutrition - Honors 3.0 CSU,UC

Programs of Study Leading to a Certificate

or NF 10 Nutrition for Personal Health 3.0 CSU and Wellness NF 28 Cultural and Ethnic Foods 3.0 CSU,UC Plus the following courses: NF 81 Cooking for Your Heart and Health 1.0 PE 34 3.0 CSU,UC Fitness for Living PSYC 40 Introduction to Interviewing 3.0 and Counseling 17.5 **Total Units**

Parametric Solid Modeling Aircraft Maintenance Technician & Manufacturing Technology Certificate E0923

With the strong relationship between AutoCAD and Manufacturing, this mini certificate glides the student through AutoDesk's 2-D, 3-D, Mechanical Desktop, and Inventors packages and relates them to real-life industrial usage.

Requirements for the Certificate *Required courses:*

| Total linits | 10.0 |
|---|--|
| Autodesk Inventor | 2.0 |
| Advanced Parametric Solid Modeling for Manufacturing | 2.0 |
| Parametric Solid Modeling for Manufacturing | 2.0 |
| 3-D CAD - Mechanical Modeling | 2.0 |
| AutoCAD 2D | 2.0 |
| | 3-D CAD - Mechanical Modeling Parametric Solid Modeling for Manufacturing Advanced Parametric Solid Modeling for Manufacturing |

SurfCAM

Aircraft Maintenance Technician & Manufacturing Technology Certificate E0925

This certificate is a direct path for manufacturing students to write, edit, download and run Computerized Numerical Control (CNC) machines, and provides a strong background in the basics of both manual and CNC machines.

Requirements for the Certificate Required courses: MEG 11 Manufacturing Processes I

| | Total Units | 8.0 |
|---------|----------------------------|--------------------|
| | (Computerized Numerical Co | ontrol) Operations |
| MFG 85 | Manual CNC | 2.0 CSU |
| MFG 39B | SurfCAM II | 2.0 CSU |
| MFG 39 | SurfCAM I | 2.0 CSU |
| MFG 11 | Manufacturing Processes I | 2.0 CSU |

2.0. 6611

Welding

Air Conditioning, Water & Welding Technologies Certificate E0919

This program is designed to prepare the student for employment in the broad field of welding and (1) leads to occupations in manufacturing and repair; and (2) helps prepare the student for positions in supervision.

Courses in the welding curriculum prepare students for welding certificates. The College is a testing agency for the City of Los Angeles, and is authorized to administer the performance test for the Structural Welding certificate. There is a \$50 charge for students and \$60 for nonstudents to take this test. Topics of the written portion of the test which is administered by the City are reviewed in various welding courses offered by the College.

Requirements for the Certificate *Required courses:*

| Note: Any higher level welding courses may be substitute | | | | | | |
|--|--------------------------|---------|--|--|--|--|
| Total Units 8.0 | | | | | | |
| WELD 70B | Intermediate Arc Welding | 3.0 | | | | |
| WELD 70A | Beginning Arc Welding | 3.0 | | | | |
| WELD 40 | Introduction to Welding | 2.0 CSU | | | | |

Note: Any higher level welding courses may be substituted for WELD 70A.

Recommended Electives:

- MFG 70 Technical Mathematics - Manufacturing Applications
- WELD 60 Print Reading and Computations for Welders
- WELD 70C Certification for Welders T1279



Programs of Study Leading to an Associate of Arts Degree or an Associate of Science Degree

PROGRAMS OF STUDY LEADING TO AN ASSOCIATE DEGREE

Mt. San Antonio College offers both Associate of Science (A.S.) and Associate of Arts (A.A.) degrees. In general, the Associate of Science degrees are two-year occupational degrees that prepare students for a variety of career and technical fields. The Associate of Arts degrees, while not intended specifically for transfer, are two-year degrees in Liberal Arts and Sciences that provide for broad exploration of a specific area of emphasis. In many cases and with appropriate academic advising, students obtaining the Associate of Arts degree will find that they have a solid foundation for further postsecondary study should they wish to transfer at a later date.

GENERAL REQUIREMENTS FOR AN ASSOCIATE DEGREE

Application for Graduation

The Application for Graduation is the student's notification to Admissions and Records that he or she has completed all requirements and would like to receive a degree. The Application for Graduation form is available in the Admissions and Records office or online at *www.mtsac.edu/students/admissions/gradp.html*. Students should meet with a Counselor to discuss their Education Plan prior to submitting the Application for Graduation.

All students intending to receive a degree must file an Application for Graduation with the Admissions and Records office and have on file all required documents and official transcripts. The deadline dates for submitting the Application for Graduation are as follows:

- Fall:deadline to apply for fall graduation is the
end of the ninth week.
- Winter: deadline to apply for winter graduation is the end of the ninth week of the fall semester.
- **Spring:** deadline to apply for spring graduation is the end of the ninth week.
- Summer: deadline to apply for summer graduation is the end of the ninth week of the spring semester.

Students should check the *Schedule of Classes* in the Key Dates to Remember section for specific deadline dates for any given semester. Applications received after the deadline will be processed with the next graduation cycle. Students may apply for graduation one semester prior to completing all required coursework. Once the degree has been conferred, the degree will be posted to the student's academic record and will appear on the transcript. Students will also receive their diplomas in the mail thereafter. If a student is denied graduation, he or she will be informed in writing.

Multiple Degrees

The Associate of Science degree shall be awarded to those graduates who majored in one of the occupational programs at Mt. San Antonio College. Students may be awarded both an Associate of Science degree and an Associate of Arts degree with the 60 units required for an Associate degree if they have met the requirements for both within the 60 units or earned credit. Each additional degree requires 18 units of course work beyond the 60 units required for the first degree(s), and must include the satisfactory completion of all the required courses in the additional major. Students awarded additional degrees must meet or complete the current general education requirements in effect at the time of re-entry.

Residency Requirement

The Residency Requirement for Mt. San Antonio College can be met in either of two ways: (1) twelve [12] units in residence and enrollment at Mt. San Antonio College in the last semester or (2) forty-five [45] units in residence, if the last semester is not at Mt. San Antonio College.

GRADUATION REOUIREMENTS 2009-2010

The following requirements apply to both Associate of Science (A.S.) and Associate of Arts (A.A.) degrees:

Unit Requirement: Sixty (60) degree-appropriate units. A letter grade of "C" or better is required for each course required for graduation.

General Education Requirements: At least 24 units are required which shall include courses in each of the General Education areas, A through E (see pages 66-67). All courses must be completed with a grade of "C" or better.

Physical Well-Being Requirement: Complete at least one of the physical education activity courses with the following prefixes: DNCE, PE-A, PE-F, PE-I, PE-L, PE-S, PE-X with a grade of "C" or better or "CR".

Reading Competency: This requirement is met by completing one of the following with a grade of "C" or better:

READ 90 Preparing for College Reading

AMLA 33R American Language Advanced Reading

or obtaining placement into READ 100 on initial Reading Placement exam

or obtaining a satisfactory score on the Reading Competency Test.

Math Competency: This requirement is met by completing one of the following with a grade of "C" or better.

1. Math 71 Intermediate Algebra,

or

- 4h 71D | hat we all at Almah
- Math 71B Intermediate Algebra Second Half
- Math 71X Practical Intermediate Algebra
- 2. Completing a more advanced college level mathematics course. <u>or</u>
- 3. Obtaining a satisfactory score on the Intermediate Algebra Competency Examination.

GPA Requirement: A Mt. San Antonio College "degree" total grade point average, and "all college" total grade point average of 2.0.

Residency Requirement: The residency requirement for Mt. San Antonio College can be met in either of two ways:

- 1. 12 units in residence and enrollment in last semester, or
- 2. 45 units in residence if the last semester is not at Mt. SAC.

Additional Requirements for the Associate of Science Degree

Students must complete all required courses in an approved occupational major with a minimum grade of "C" in all course. See pages 69-95 for listings of the Associate in Science degree majors.

Additional Requirements for the Associate of Arts Degree

Students must complete a pattern of 18 or more units from the courses identified within a specific area of emphasis with a minimum grade of "C" in all courses. See pages 96-100 for listings of the Associate in Arts in Liberal Arts & Sciences areas of emphasis.

NOTE: All students must file a petition for graduation with the Admissions & Records Office and have on file all required documents and transcripts.

GENERAL EDUCATION REQUIREMENTS

Philosophy Statement

General education is the distinguishing feature of higher education. It is a broadly-based core of humanistic knowledge and abilities, the acquisition of which is the distinctive characteristic of the educated person. General education courses emphasize the ability to reason, to examine issues from different perspectives, to challenge authority, and to communicate ideas logically and confidently. They instill openmindedness, respect for differences among people, and knowledge of self. By exposing students to different fields of study, general education courses provide an understanding of the human condition and of human accomplishments and encourage a lifelong interest in learning. Together with other Mt. San Antonio College degree requirements, the general education component of the associate degree prepares students to:

- transfer to and function successfully in a baccalaureate degreegranting institution;
- enter the work force as a competent, productive citizen;
- live a richer, more rewarding life.

General education courses are not primarily skills-based, nor are they limited to, or more appropriate for, majors in a specialized field of study. Courses that fulfill general education requirements must:

- 1. Require post-secondary level skills in reading, writing, quantitative reasoning, and critical thinking.
- 2. Improve students' abilities to:
 - communicate oral and written ideas effectively;
 - define problems, design solutions, critically analyze results;
 - use available media to access and retrieve reliable information for data gathering and research;
 - work effectively, both cooperatively and independently;
 - develop and question personal and societal values, make informed choices, and accept responsibility for their decisions;
 - function as active, responsible, ethical citizens;
 - acquire the curiosity and skills essential for lifelong learning.
- 3. Impart understanding, knowledge, and appreciation of:
 - our shared scientific, technological, historical, and artistic heritage, including the contributions of women, ethnic minorities, and non-western cultures;
 - the earth's ecosystem, including the processes that formed it and the strategies that are necessary for its maintenance;
 - human social, political, and economic institutions and behavior, including their interrelationships;
 - the psychological, social, and physiological dimensions of men and women as individuals and as members of society.

Courses that fulfill general education requirements must fall into one of the content categories listed below:

- A. Communication and Critical Thinking
- B. Science and Math
- C. Arts and Humanities
- D. Social Sciences
- E. Lifelong Understanding and Self-Development

Criteria for inclusion in each of the above categories are itemized below:

A. Communication and Critical Thinking These courses emphasize both the content and form of communication. They teach students the relationship of language to logic, as well as how to analyze, criticize, and advocate ideas; to reason deductively and inductively; and to reach sound conclusions. Courses fulfilling this requirement:

- provide understanding of the psychological and social significance of communication;
- illustrate how communication operates in various situations;
- focus on communication from the rhetorical perspective: reasoning, advocacy, organization, accuracy; the discovery, critical evaluation, and reporting of information; reading, listening, speaking, and writing effectively;
- provide active participation and practice in written and oral communication.

B. Science and Mathematics

These courses impart knowledge about living and non-living systems, and mathematical concepts and quantitative reasoning with applications. Courses fulfilling this requirement:

- promote understanding and appreciation of the methodologies and tools of science;
- emphasize the influence of scientific knowledge on the development of civilization;
- impart appreciation and understanding of basic concepts, not just skills;
- offer specific inquiry into mathematical concepts, quantitative reasoning and application. (See Mt. SAC degree competency requirements.)

Programs Leading to an Associates Degree

C. Humanities

These courses cultivate intellect, imagination, sensibility and sensitivity. They encourage students to respond subjectively as well as objectively and to develop a sense of the integrity of emotional and intellectual responses. Courses fulfilling this requirement:

- study great work of the human imagination;
- increase awareness and appreciation of the traditional humanistic disciplines such as art, dance, drama, literature, and music;
- impart an understanding of the interrelationship between creative art, the humanities, and the self;
- provide exposure to both Western and non-Western cultures;
- may include a foreign language course that contains a cultural component as opposed to a course that focuses solely on skills acquisition.

D. Social Sciences

These courses explore, at the micro and macro-level, the social, political, and economic institutions that underpin society. Courses fulfilling these requirements:

- promote understanding and appreciation of social, political, and economic institutions;
- probe the relationship between these institutions and human behavior;
- examine these institutions in both their historical and contemporary context;
- include the role of, and impact on, non-white ethnic minorities and women;
- include both Western and non-Western settings.

E. Lifelong Understanding and Self-Development

These courses facilitate an understanding of human beings as integrated physiological, social and psychological organisms. Courses fulfilling this requirement:

 provide selective consideration of human behavior, sexuality, nutrition, health, stress, implications of death and dying, and the relationship of people to the social and physical environment.

Adapted from CSU Executive Order 595 and Title 5 Section 40405.1

| GENERAL EDUCATION REQ | UIREMENTS FOR 2009-2010 | GENERAL EDUCATION REQUIREMEN | TS FOR 2009-2010 (continued) |
|--|---|---|---|
| AREA A: | PHYS 2AG General Physics | AHIS 6 History of Modern Art FR | RCH 2 Continuing Elementary French |
| Communication in the English Language (6 units): | PHYS 2BG General Physics | AHIS 6H History of Modern Art – Honors FR | RCH 3 Intermediate French |
| Select two [2] courses from the following: | PHYS 4A Engineering Physics | AHIS 9 History of Asian Art FR | RCH 4 Continuing Intermediate French |
| ENGL 1A Freshman Composition, <u>or</u> | LIFE SCIENCES | AHIS 10 A History of Greek and Roman Art and FR | RCH 5 Advanced French |
| ENGL 1AH Freshman Composition – Honors | AGOR 1 Horticultural Science | Architecture FR | RCH 6 Continuing Advanced French |
| and | ANAT 10A Introductory Human Anatomy | AHIS 11 History of African, Oceanic, and Native FR | RCH 60 French Culture Through Cinema |
| SPCH 1A Public Speaking, <u>or</u> | ANAT 10B Introductory Human Physiology | | ERM 1 Elementary German |
| SPCH 1AH Public Speaking – Honors | ANAT 35 Human Anatomy | | ERM 2 Continuing Elementary German |
| | ANAT 36 Human Physiology | | ERM 3 Intermediate German |
| AREA B: | ANTH 1 Biological Anthropology | | ST 1 History of the U.S. |
| The Physical Universe and Life (3 units): | ANTH 1H Biological Anthropology – Honors | | ST 3 History of World Civilization |
| Select one [1] course from the Physical Sciences or | ANTH 1L Biological Anthropology Laboratory | | ST 3H History of World Civilization – Honors |
| Life Sciences: | BIOL 1 General Biology | | ST 4 History of World Civilization |
| PHYSICAL SCIENCES | BIOL 2 Plant and Animal Biology | 3 | ST 4H History of World Civilization – Honors |
| ASTR 5 Introduction to Astronomy | BIOL 3 Ecology and Field Biology | | ST 7 History of the U.S. |
| ASTR 5H Introduction to Astronomy – Honors ASTR 5L Astronomical Observing Laboratory | BIOL 4 Biology for Majors | | ST 7H History of the U.S. – Honors |
| ASTR 5L Astronomical Observing Laboratory ASTR 7 Geology of the Solar System | BIOL 4H Biology for Majors – Honors | 3 | ST 8 History of the U.S. |
| ASTR 8 Introduction to Stars, Galaxies, and the | BIOL 6 Humans and the Environment | , , , , , , , , , , , , , , , , , , , | IST 8H History of the U.S. – Honors IST 10 History of Asia |
| Universe | BIOL 6L Humans and the Environment Laboratory | | IST 10 HIStory of Asia |
| CHEM 10 Chemistry for Allied Health Majors | BIOL 17 Neurobiology and Behavior | , | IST 19 History of Mexico |
| CHEM 20 Introductory Organic and Biochemistry | BIOL 20 Marine Biology | , | ST 30 History of the African American |
| CHEM 40 Introduction to General Chemistry | BIOL 21 Marine Biology Laboratory | | ST 31 History of the African American |
| CHEM 50 General Chemistry I | BIOL 34 Fundamentals of Genetics | | ST 35 History of Africa |
| CHEM 50H General Chemistry I – Honors | MICR 1 Principles of Microbiology MICR 22 Microbiology | / | ST 36 Women in American History – Beyond |
| CHEM 51 General Chemistry II | PSYC 1B Biological Psychology | MUS 12 History of Jazz | the Stereotypes |
| GEOG 1 Elements of Physical Geography | | | ST 39 California History |
| GEOG 1L Physical Geography Laboratory | AREA C: | | ST 40 History of the Mexican American |
| GEOG 1H Elements of Physical Geography – Honors | Arts and Humanities (6 units): | | UMA 1 The Humanities |
| GEOG LH Physical Geography Laboratory – Honors | Select two [2] courses, six [6] units minimum, with at | MUS 14A World Music ITA | AL 1 Elementary Italian |
| GEOL 1 Physical Geology | <i>least one [1] course from the Arts and one [1] from</i> | MUS 14B American Folk Music ITA | AL 2 Continuing Elementary Italian |
| GEOL 7 Geology of California | Humanities: | | AL 3 Intermediate Italian |
| GEOL 8 Earth Science | ARTS | | AL 4 Continuing Intermediate Italian |
| GEOL 8H Earth Science – Honors | AHIS 1 Understanding the Visual Arts, <u>or</u> | SPCH 4 Oral Interpretation of Literature ITA | AL 5 Advanced Italian |
| GEOL 8L Earth Science Laboratory | ARTB 1 Understanding the Visual Arts | | AL 6 Continuing Advanced Italian |
| GEOL 9 Environmental Geology | AHIS 1H Understanding the Visual Arts – Honors | , | AL 60 Italian Culture Through Cinema |
| GEOL 10 Natural Disasters | AHIS 2 Topics in Visual Art and Culture | | PN 1 Elementary Japanese |
| GEOL 13 Evolution of the Earth | AHIS 2H Topics in Visual Art and Culture – Honors | HOMANITES | PN 2 Continuing Elementary Japanese |
| METO 3 Weather and the Atmospheric Environment | AHIS 3 History of Women and Gender in Art | And T Elementary Analie | PN 3 Intermediate Japanese |
| METO 3L Weather and the Atmospheric | AHIS 3H History of Women and Gender in Art – Honors | And 2 Continuing Elementary Addie | IPN 4 Continuing Intermediate Japanese |
| Environment Laboratory | AHIS 4 History of Western Art: Prehistoric | Crine i Liementary crimese | PN 5 Advanced Japanese |
| OCEA 10 Introduction to Oceanography OCEA 10H Introduction to Oceanography – Honors | Through Gothic AHIS 4H History of Western Art: Prehistoric | chint 2 containing Elementary chinese | ATN 1 Elementary Latin |
| OCEA 10H Introduction to Oceanography – Honors OCEA 10L Introduction to Oceanography Laboratory | Through Gothic – Honors | | ATN 2 Continuing Elementary Latin |
| PHSC 3 Energy Science | AHIS 5 History of Western Art: Renaissance | crine + Continuing interinediate crinese | T 1 Early American Literature T 2 Modern American Literature |
| PHSC 7 Physical Science | Through Modern | Ende ib English introduction to Enclury types | T 3 Modern American Literature Multicultural American Literature |
| PHSC 7L Physical Science Laboratory | AHIS 5H History of Western Art: Renaissance | | T 6A Survey of English Literature |
| PHYS 1 Physics | Through Modern – Honors | 1963 - 1101013 | T 6B Survey of English Literature |
| , | - | | |
| *Courses may not be double counted to satisfy more than o | ne area, even it a course is listed in more than one area. | *Courses may not be double counted to satisfy more than one are | rea, even it a course is listea in more than one area. |

| | GENERAL EDUCATION REQUIRE | MENTS FOR | 2009-2010 (continued) | | GENERAL EDUCATION REQUIRE | MENTS FOR | R 2009-2010 (continued) |
|-------------|--|------------------|--|------------|---|------------------|--|
| LIT 11A | World Literature | *HIST 36 | Women in American History – | PSYC 14 | Developmental Psychology | BIOL 5 | Contemporary Health Issues |
| LIT 11B | World Literature | | Beyond the Stereotypes | PSYC 19 | Abnormal Psychology | BIOL 13 | Human Reproduction, Development |
| LIT 14 | Introduction to Modern Poetry | *HIST 40 | History of the Mexican American | *PSYC 25 | , ., | | and Aging |
| LIT 15 | Introduction to Cinema | POLI 1 | Political Science | SOC 1 | Sociology | BIOL 15 | Human Sexuality |
| LIT 20 | African American Literature | POLI 1H | Political Science – Honors | SOC 1H | Sociology — Honors | BIOL 15H | Human Sexuality — Honors |
| LIT 25 | Contemporary Mexican American | POLI 25 | Politics of the Mexican American | SOC 2 | Sociology | *CHLD 10 | Child Growth and Development |
| | Literature | POLI 35 | African American Politics | SOC 2H | Sociology — Honors | *CHLD 10H | Child Growth and Development – Honors |
| LIT 33 | Images of Women in Literature | Flective Co | urses – select at least one [1] course | SOC 4 | Introduction to Gerontology | COUN 5 | Career/Life Planning |
| LIT 35 | Science Fiction and Fantasy Survey | | ollowing list (3 units): | SOC 5 | Introduction to Criminology | FCS 41 | Life Management |
| LIT 36 | Introduction to Mythology | AGAG 1 | Food Production, Land Use and Politics – | SOC 5H | Introduction to Criminology – Honors | LEAD 55 | Exploring Leadership |
| LIT 40 | Children's Literature | | A Global Perspective | SOC 14 | Marriage and the Family | NF 10 | Nutrition for Personal Health and Wellness |
| LIT 46 | The Bible as Literature: Old Testament | AGFR 20 | Conservation of Natural Resources | SOC 15 | Child Development | NF 25 | Essentials of Nutrition |
| LIT 47 | The Bible as Literature: New Testament | ANTH 3 | Archaeology | SOC 20 | Sociology of Ethnic Relations | NF 25H | Essentials of Nutrition – Honors |
| PHIL 5 | Introduction to Philosophy | ANTH 5 | Principles of Cultural Anthropology | SOC 20H | Sociology of Ethnic Relations – Honors | NF 28 | Cultural and Ethnic Foods |
| PHIL 5H | Introduction to Philosophy – Honors | ANTH 22 | General Cultural Anthropology | SPCH 7 | Intercultural Communication | PE 34 | Fitness for Living |
| PHIL 12 | Ethics | ANTH 30 | The Native American | SPCH 7H | Intercultural Communication – Honors | PSYC 14 | Developmental Psychology |
| PHIL 12H | Ethics – Honors | BUSC 1A | Principles of Economics – Macroeconomics | SPCH 26 | Interpersonal Communication | *PSYC 25 | The Psychology of Women |
| PHIL 15 | Major World Religions | BUSC 1AH | Principles of Economics – | SPCH 26 | Interpersonal Communication – Honors | PSYC 26 | Psychology of Sexuality |
| PHIL 15H | Major World Religions – Honors | bose min | Macroeconomics – Honors | AREA E: | | PSYC 33 | Psychology for Effective Living |
| PHIL 20A | History of Western Philosophy | BUSC 1B | Principles of Economics – Microeconomics | | Understanding and Self-Development | SOC 15 | Child Development |
| PHIL 20B | History of Western Philosophy | BUSC 1BH | Principles of Economics – | (3 units | | | |
| SIGN 101 | American Sign Language 1 | bose ibii | Microeconomics – Honors | Select on | e [1] course from the following: | | |
| SIGN 102 | American Sign Language 2 | CHLD 1 | Child, Family, School and Community | AD 3 | Chemical Dependency: Intervention, | | |
| SIGN 103 | American Sign Language 3 | CHLD 10 | Child Growth and Development | 100 | Treatment and Recovery | | |
| SIGN 104 | American Sign Language 4 | CHLD 10H | Child Growth and Development – Honors | | neutrient und necovery | | |
| SIGN 202 | American Deaf Culture | GEOG 2 | Human Geography | *Courses n | ay not be double counted to satisfy more than | one area. even i | if a course is listed in more than one area. |
| SPAN 1 | Elementary Spanish | GEOG 2H | Human Geography — Honors | | , | | |
| SPAN 2 | Continuing Elementary Spanish | GEOG 5 | World Regional Geography | | | | |
| SPAN 3 | Intermediate Spanish | GEOG 8 | The Urban World | | ALPHABETICAL LISTING — ASS | DCIATE OF | SCIENCE DEGREE (A.S.) |
| SPAN 4 | Continuing Intermediate Spanish | GEOG 30 | Geography of California | Mt. San A | ntonio College offers two year occupation | al degrees in | the following section of this Catalog. To |
| SPAN 5 | Advanced Spanish | *HIST 3 | History of World Civilization | | r the degree, students must complete the | | |
| SPAN 6 | Continuing Advanced Spanish | *HIST 3H | History of World Civilization – Honors | | I general education courses as listed on pa | | |
| SPAN 11 | Spanish for the Spanish Speaking Continuing Spanish for the | *HIST 4 | History of World Civilization | | seling and Advising Services on the uppe | | |
| SPAN 12 | | *HIST 4H | History of World Civilization – Honors | with Cou | isening and Advising Services on the uppe | | Student Sevices Center. |
| SPAN 25 | Spanish Speaking Spanish Literature | *HIST 10 | History of Asia | Α | | Architectural | Technology – Technology Concentration 72 |
| SFAIN ZJ | Spanish Literature | *HIST 11 | History of Asia | | - | | ence |
| AREA D: | | *HIST 19 | History of Mexico | Accountin | g | | |
| | itical and Economic Institutions | *HIST 35 | History of Africa | | ative Assistant | | |
| | U.S. History and American Institutions | *HIST 39 | California History | | g Design and Illustration69 | | anagement72 |
| | 1] course from the following: | *HIST 44 | History of Native Americans | | lology 69 | Business: Re | etail Management72 |
| *HIST 1 | History of the U.S. | JOUR 100 | Mass Media and Society | 1 1 | oning and Refrigeration | Chemical La | boratory Technician72 |
| *HIST 7 | History of the U.S. | JOUR 107 | Race, Culture, Sex, and Mass Media Images | | nd Aircraft Powerplant | Child Develo | opment |
| *HIST 7H | History of the U.S. – Honors | POLI 2 | Political Science | Mainte | nance Technology — Day | | Flight |
| *HIST 8 | History of the U.S. | POLI 5 | Political Science Theory | Airframe a | nd Aircraft Powerplant | | nd Networking Technology |
| *HIST 8H | History of the U.S. – Honors | POLI 9 | Introduction to International Relations | | nance Technology — Evening | | |
| *HIST 30 | History of the African American | PSYC 1A | Introduction to Psychology | 1 1 | ug Counseling | computer G | raphics Design/Photography |
| *HIST 31 | History of the African American | PSYC 1AH | Introduction to Psychology – Honors | | | computer in | etwork Administration and |
| *Courses ma | u not be double counted to caticfy more than | | f a cource is listed in more than one area | | ral Technology — Design Concentration 71 | | Management74 |
| courses may | y not be double counted to satisfy more than o | nie urea, even l | u course is listed in more than one area. | Architectu | iai ieciniology – Desigli Colicelluation / I | | |

| B-C (continued) | L |
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| Computer Programmer — Database | Law Enforcement . |
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| Computer Programming74 | Livestock Managem |
| Construction Inspection74 | M - N |
| Correctional Sciences | |
| D-E | Manufacturing Tech |
| | Marketing Manager |
| Educational Paraprofessional | Mental Health Tech |
| Electronics and Computer Engineering | Technician |
| Technology | Nursing |
| Emergency Medical Services | 0-Q |
| Engineering Design Technology | Ornamental Horticu |
| Equipment Technology | Paralegal/Legal — B |
| Escrow Management77 | Paralegal/Legal – C |
| F | Business Special |
| Family and Consumer Sciences77 | Paralegal/Legal – C |
| Fashion Design | Paralegal/Legal — F |
| Fashion Merchandising | Paralegal/Legal – L |
| Fire Technology | Park & Sports Turf I |
| Fire Technology – Administration | Pet Science |
| Fire Technology – Administrative | Photography |
| Communications | Physical Education |
| Fire Technology – Administrative Law | Psychiatric Technicia |
| Fire Technology – Fire Management | |
| Fire Technology – Fire Prevention | R |
| Fire Technology – Fire Training | Radio Broadcasting |
| Fire Technology – Private Fire Service | Radio Broadcasting |
| | Radiologic Technolo |
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| Histologic Technician Training80 | Registered Veterina |
| Horse Ranch Management 80 | Respiratory Therapy |
| Hospitality and Restaurant Management | S-T |
| Human Resource Management | 3-1 |

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| Interior Design – Kitchen and Bath Design8 | 1 |
| International Business8 | 1 |

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| | Technician |
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|) | rnamental Horticulture86 |
| | aralegal/Legal — Bankruptcy Specialty |
| | aralegal/Legal – Corporations/ |
| | Business Specialty |
|) | aralegal/Legal – Criminal Specialty |
| | aralegal/Legal – Family Law Specialty |
| | aralegal/Legal – Landlord/Tenant Specialty 88 |
| | ark & Sports Turf Management |
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|) | hotography |
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| | adio Broadcasting: Behind the Scenes |
| | adio Broadcasting: On the Air |
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| | eal Estate Appraisal |
| | egistered Veterinary Technology |
| | espiratory Therapy |
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| Arts DivisionAdvertising Design and Illustration69Animation71Computer Graphics Design/Photography73Photography89Radio Broadcasting: Behind the Scenes90Radio Broadcasting: On the Air90Television Production94Business Division | Histologic Technician Training 80 Horse Ranch Management 80 Livestock Management 83 Ornamental Horticulture 86 Park & Sports Turf Management 88 Pet Science 88 Registered Veterinary Technology 92 Physical Education Division 89 |
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| | , |
| Accounting69Administrative Assistant69Business: Management72Business: Retail Management72Child Development73Computer Network Administration & Security Management74Computer Programmer – Database Management Systems73Computer Programming74Escrow Management77Family and Consumer Sciences77Fashion Design78General Business80Hospitality and Restaurant Management81Interior Design81Interior Design81Interior Design81Interior Design81Interior Design81Interior Design81Paralegal/Legal – Bankruptcy Specialty86Paralegal/Legal – Corporations/ Business Specialty87Paralegal/Legal – Criminal Specialty87Paralegal/Legal – Criminal Specialty87Paralegal/Legal – Landlord/Tenant Specialty87Paralegal/Legal – Landlord/Tenant Specialty88Real Estate92Small Business Management94Humanities & Social Sciences Division94Autural Sciences Division75Sign Language/Interpreting94Autural Sciences Division75Architectural Technology – Design Concentration71Architectural Technology – Design Concentration72Chemical Laboratory Technician72Equipment Technology72 | Technology & Health DivisionAir Conditioning and Refrigeration.70Airframe and Aircraft PowerplantMaintenance Technology – Day.70Airframe and Aircraft PowerplantMaintenance Technology – Day.70Airframe and Aircraft PowerplantMaintenance Technology – Evening.70Alcohol/Drug Counseling.71Architectural Technology.71Aviation Science.72Commercial Flight.73Computer and Networking Technology.74Construction Inspection.74Correctional Sciences.75Electronics and Computer Engineering.75Electronics and Computer Engineering.75Engineering Design Technology.75Emergency Medical Services.75Engineering Design Technology.78Fire Technology.78.78Fire Technology – Administration.78Fire Technology – Administrative.79.79Communications.79.79Fire Technology – Fire Management.79Fire Technology – Fire Training.79.79.79Fire Technology – Fire Training.79.79.79Fire Technology – Private Fire Service.79.79Licensed Vocational Nurse to RN.82Manufacturing Technology – PsychiatricTechnology.74.79.79Aire Technology.79.79Fire Technology – Private Fire Service.79Law Enforcement.82Manufacturing Technology – Psychiatric.82Technology.83< |

AGPE 70

AGPE 71

Pet Shop Management

Canine Management

Total Units

| Account Account Major SC | ing and Management Depa | irtme | ent | F A B B |
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| | reparing to become professional ow the Business Administration c | | | B |
| | college or university. The following | | | |
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| bookkeepi years. | ng or accounting positions at the | end o | f two | 0 |
| | ments for the Major | | | |
| Required c | | | | |
| BUSA 7 | Principles of Accounting - Financial | 5.0 | CSU,UC | |
| BUSA 8 | Principles of Accounting | 5.0 | CSU,UC | ľ |
| | - Managerial | | | |
| BUSA 21 | Cost Accounting | 4.0 | | |
| BUSA 52 | Intermediate Accounting | 3.0 | | |
| BUSA 53 | Ten-Key Calculations | 2.0 | | |
| | <u>or</u> | 1.0 | | (|
| BUSA 81 | Work Experience in Accounting Federal Income Tax Law | 1.0 | | (|
| BUSA 58 BUSA 70 | reactar income fan Ean | 3.0 3.0 | | (|
| BUSA 70 | Payroll and Tax Accounting Using Microcomputers | 5.0 1.0 | | |
| DUSA 75 | in Financial Accounting | 1.0 | | |
| | or | | | - |
| BUSA 81 | Work Experience in Accounting | 1.0 | | |
| BUSA 76 | Using Microcomputers | 1.0 | | |
| | in Managerial Accounting | | | 1 |
| | <u>or</u> | | | 1 |
| BUSA 81 | Work Experience in Accounting | 1.0 | | 0 |
| BUSM 20 | Principles of Business | 3.0 | CSU,UC | 0 |
| BUSO 25 | Business Communications | 3.0 | | |
| CISB 15 | Microcomputer Applications | 4.0 | CSU,UC | |
| | Total Units 36.0 - | 37.0 | | t |

Administrative Assistant Office Technology Department Major S0514

This program is intended to prepare students for employment following graduation as administrative assistants, executive assistants, office managers, or other clerical and support staff. Training in a variety of computer and clerical skills is emphasized. Students desiring a Bachelor's Degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses.

| | ments for the Major | | |
|------------|--|--------|--------|
| • | ore courses: | | |
| BUSO 5 | Business English | 3.0 | |
| BUSO 25 | Business Communications | 3.0 | CSU |
| BUSO 26 | Oral Communications for Business | 3.0 | |
| COMP 2 | Intermediate Computer Keyboarding | 4.0 | |
| COMP 12 | Office Computer Applications | 4.0 | CSU,UC |
| CISB 15 | Microcomputer Applications | 4.0 | CSU,UC |
| COMP 20 | Word for the Business Professio | nal4.0 | |
| COMP 28 | Office Management Skills | 3.0 | |
| COMP 50 | Desktop Presentations Using PowerPoint | 4.0 | CSU |
| COMP 68 | Transcription Techniques | 3.0 | |
| PLUS | | | |
| Select one | (1) course from: | | |
| COMP 11 | Internet Research for Business | 2.0 | CSU |
| COMP 13 | Using Web Page Software | 4.0 | CSU |
| COMP 18 | Data Entry | 3.0 | |
| COMP 60 | Business Publications Using Desktop Publishing Software | 4.0 | CSU |
| | Total Units | 33.0 | - 35.0 |

Advertising Design and Illustration Commercial and Entertainment Arts Major S1003

This program is designed to provide students with a combination of critical thinking skills, problem solving capacities, and the technical expertise necessary for entry evel employment as a Graphic Designer or Illustrator in Advertising and related Visual Communication industries. Students completing the course are eligible for advanced training or for transfer to a college or university for further study.

Requirements for the Major Required courses:

| ARTC 60 | Graphic Design: | 3.0 | CSU,UC |
|----------|---------------------------------|-----|--------|
| | Lettering and Typography | | |
| ARTC 66 | Portfolio | 3.0 | |
| ARTC 70 | Computer Graphics: Introduction | 3.0 | CSU |
| ARTC 165 | Illustration | 3.0 | CSU |
| ARTC 171 | Computer Graphics 2: | 3.0 | CSU |
| | Advanced Layout and Design | | |
| ARTD 15A | Drawing: Beginning | 3.0 | CSU,UC |
| ARTD 17A | Drawing: Life | 3.0 | CSU,UC |
| | | | |

| ARTD 20 | Design: Two Dimensional | 3.0 | CSU,UC | Th |
|--------------|---|------|----------|------------|
| ARTD 25A | Painting: Beginning | 3.0 | CSU,UC | em |
| PLUS | | | | Ba |
| Select one (| 1) course from: | | | the dis |
| AHIS 5 | History of Western Art: Renaissance Through Modern | 3.0 | CSU,UC | in spe |
| | <u>or</u> | | | ag |
| AHIS 5H | History of Western Art | | CSU,UC | Re |
| | - Renaissance Through Modern | | | Re |
| AHIS 6 | History of Modern Art or | 3.0 | CSU,UC | AG |
| AHIS 6H | History of Modern Art - Honors | 3.0 | CSU,UC | |
| | Total Units | 30.0 | <i>.</i> | AG |
| Recommen | ded Electives: | | | AG |
| AHIS 4 | History of Western Art: Prehistoric Through Gothic | | | AG AG |
| ANIM 172 | Motion Graphics With After Effe | cts | | |
| ANIM 175 | Web Animation With Flash | | | AG |
| ARTC 77 | Computer Graphics: Illustration | | | AG |
| ARTC 78A | Work Experience in Advertising Design/Illustration | | | AG |
| ARTD 16 | Drawing: Perspective | | | PL |
| ARTD 45 | 45 Printmaking: Silk-Screening | | | Se |
| ARTS 22 | Decign: Three Dimensional | | | AG |
| PHOT 10 | Basic Digital and Film Photogra | phy | | AG |
| | | | | |

Agri-Technology Agricultural Sciences Department Major S0101

The program of courses in Agriculture is designed to enable students to prepare for a career in this essential and diverse profession. The department offers a comprehensive Agricultural Sciences program and is unique in that most courses provide hands-on experiences designed to give the student a combination of practical skills and technical knowledge. Students who intend to transfer should check the lower division requirements in the catalog of the college or university which they will attend and also the semester and year in which the courses are offered.

The following programs list all courses needed to satisfy major requirements. Students may obtain certificates upon completion of required courses listed. Additional courses needed for completion of the Associate of Science Degree are listed in this catalog. It is recommended that all students consult with the department chairperson, faculty advisor, or counselor to file an educational plan.

| These programs are intended to prepare students for employment following graduation. Students desiring a Bachelor's Degree (transfer program) should consult with the department chairperson, counselor or advisor to discuss transferability of courses. The curriculum is flexible in nature to allow for previous experience and specialization in a given area of agriculture and agricultural business. Requirements for the Major | | | | | | |
|--|--|-------|-------------|--|--|--|
| Required c | | 2.0 | <u>(())</u> | | | |
| AGAB 20 | Microcomputer Applications in Agriculture | 3.0 | CSU,UC | | | |
| AGAG 1 | Food Production, Land Use | | CSU,UC | | | |
| | and Politics - A Global Perspectiv | /e | | | | |
| AGAG 91 | Agricultural Calculations | 3.0 | | | | |
| AGAN 1 | Animal Science | 3.0 | CSU,UC | | | |
| AGOR 1 | Horticultural Science | 3.0 | CSU | | | |
| AGOR 32 | Landscaping and Nursery Management | 3.0 | CSU | | | |
| AGOR 56 | Engine Diagnostics | 3.0 | CSU | | | |
| AGOR 71 | Landscape Construction | 3.0 | CSU | | | |
| | Fundamentals | | | | | |
| PLUS | | | | | | |
| Select one | Select one (3) courses from: | | | | | |
| AGFR 20 | Conservation of Natural Resource | es3.0 | CSU,UC | | | |
| AGLI 14 | Swine Production | 3.0 | CSU | | | |
| AGLI 16 | Horse Production | 4.0 | CSU,UC | | | |
| AGLI 17 | Sheep Production | 3.0 | CSU | | | |
| AGLI 30 | Beef Production | 3.0 | CSU | | | |
| AGOR 24 | Integrated Pest Management | 3.0 | CSU | | | |
| AGOR 62 | Landscape Irrigation | 3.0 | CSU | | | |
| | - Design and Installation | | | | | |

3.0

3.0

33.0 - 34.0

Air Conditioning and Refrigeration Air Conditioning, Water & Welding Technologies Major S0909

This program is designed to prepare the student for employment in the broad field of air conditioning, heating and refrigeration and leads to occupations in design, manufacturing, operation, sales, distribution, installation, maintenance and repair. Students desiring a Bachelor's Degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses.

Requirements for the Major *Required courses:*

| AIRC 10 | Technical Mathematics 2.0 | |
|----------|---|---------|
| | in Air Conditioning and Refrigeration | |
| AIRC 11 | Welding for Air Conditioning and Refrigeration | 2.0 |
| AIRC 12 | Air Conditioning Codes and Standards | 3.0 |
| AIRC 20 | Refrigeration Fundamentals | 3.0 |
| AIRC 25 | Electrical Fundamentals | 4.0 |
| | for Air Conditioning and Refrige | eration |
| AIRC 26A | Heat Pump Fundamentals | 1.5 |
| AIRC 26B | Gas Heating Fundamentals | 2.0 |
| AIRC 30 | Heat Load Calculations | 3.0 |
| AIRC 31 | Commercial Electrical | 4.0 |
| | for Air Conditioning and Refrige | eration |
| AIRC 32A | Air Properties and Measuremen | it 1.5 |
| AIRC 32B | Air Distribution Systems | 1.5 |
| AIRC 34 | Advanced Mechanical | 4.0 |
| | Refrigeration | |
| AIRC 37 | Pneumatic Controls | 2.0 |
| AIRC 39 | Building Automation Systems | 4.0 |
| | Total Units | 37.5 |
| | | |

Airframe and Aircraft Powerplant Maintenance Technology-Evening Aircraft Maintenance Tech & Manufacturing Dept. Maior S0951

This program prepares students to enter employment as a certified airframe and powerplant technician in the aircraft maintenance industry. Training is given in the overhaul of various airframes and powerplants and their components. Completion of this program leads to an Associate of Science Degree. Two state-awarded

certificates are also available upon successful completion of this program - one certificate in Airframe Maintenance Technology and one certificate in Aircraft Powerplant Maintenance Technology. Excellent opportunities for employment exist in this area of training. Certain administrative, quality control, and flight personnel careers require the applicant to hold a valid A & P Certificate.

This program offers a day (full-time) or evening (parttime) program option. The only difference between the two options is the course numbering and time required to complete the program. Day program courses AIRM 65A and 65B are equivalent to evening program courses AIRM 95A, 95B, 96A, 96B, 97A, 97B, 98A, and 98B. Day program courses AIRM 66A and 66B are equivalent to evening program courses AIRM 90A, 90B, 91A, 91B, 92A, 92B, 93A, and 93B. The evening program courses are offered in 9week modules.

Successful completion of this program enables students to take the FAA examinations in Airframe, General, and Powerplant. Passing the General Exam plus the Airframe and/or Powerplant Exam provides certification as an Aircraft Maintenance Technician, which is required for employment in this field. Students desiring a Bachelor's Degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses.

Requirements for the Major *Required courses:*

- AIRM 70A Aircraft Maintenance Electricity 3.0 and Electronics AIRM 70B Aircraft Maintenance Electricity 3.0 and Electronics AIRM 71 Aviation Maintenance Science 6.0 AIRM 72 Aviation Materials and Processes 1.5 AIRM 73 Aviation Welding 1.5 AIRM 90A Airframe Maintenance Technology 3.0 Airframe Maintenance Technology 3.0 AIRM 90B
- AIRM 91A Airframe Maintenance Technology 3.0
- AIRM 91B Airframe Maintenance Technology 3.0
- AIRM 92A Airframe Maintenance Technology 3.0
- AIRM 92B Airframe Maintenance Technology 3.0
- AIRM 93A Airframe Maintenance Technology 3.0
- AIRM 93B
 Airframe Maintenance Technology 3.0

 AIRM 95A
 Aircraft Powerplant 3.0

 Maintenance Technology
 AIRM 95B

 Aircraft Powerplant 0.0
 Maintenance 3.0

 Maintenance Technology
 AIRM 95B
- AIRM 96A Aircraft Powerplant 3.0 Maintenance Technology

| Aircraft Powerplant | 3.0 |
|---|--|
| 57 | |
| | 3.0 |
| 57 | |
| • | 3.0 |
| 57 | |
| | 3.0 |
| 57 | |
| • | 3.0 |
| 57 | |
| Total Units | 63.0 |
| ded Electives: | |
| Aircraft Maintenance Technol - Work Experience | ogy |
| Lab Studies in Aircraft | |
| Maintenance Technology | |
| Lab Studies in Aircraft | |
| Maintenance Technology | |
| Technical Engineering Drawir | ng II |
| 5 5 5 | |
| Technical Mathematics | |
| - Manufacturing Applications | 5 |
| Physics | |
| | Maintenance Technology Aircraft Powerplant Maintenance Technology Aircraft Powerplant Maintenance Technology Aircraft Powerplant Maintenance Technology Aircraft Powerplant Maintenance Technology Total Units ded Electives: Aircraft Maintenance Technol - Work Experience Lab Studies in Aircraft Maintenance Technology Lab Studies in Aircraft Maintenance Technology Lab Studies in Aircraft Maintenance Technology Technical Engineering Drawin Survey of Electronics Technical Mathematics |

Airframe and Aircraft Powerplant Maintenance Technology-Day Aircraft Maintenance Tech & Manufacturing Dept.

Major S0911

This program prepares students to enter employment as a certified airframe and powerplant technician in the aircraft maintenance industry. Training is given in the overhaul of various airframes and powerplants and their components. Completion of this program leads to an Associate of Science Degree. Two state-awarded certificates are also available upon successful completion of this program - one certificate in Airframe Maintenance Technology and one certificate in Aircraft Powerplant Maintenance Technology. Excellent opportunities for employment exist in this area of training. Certain administrative, quality control, and flight personnel careers require the applicant to hold a valid A & P Certificate.

This program offers a day (full-time) or evening (parttime) program option. The only difference between the two options is the course numbering and time required to complete the program. Day program courses AIRM 65A and 65B are equivalent to evening program courses AIRM 95A, 95B, 96A, 96B, 97A, 97B, 98A, and 98B. Day program courses AIRM 66A and 66B are equivalent to evening program courses AIRM 90A, 90B, 91A, 91B, 92A, 92B, 93A, and 93B. The evening program courses are offered in 9-week modules.

Successful completion of this program enables students to take the FAA examinations in Airframe, General, and Powerplant. Passing the General Exam plus the Airframe and/or Powerplant Exam provides certification as an Aircraft Maintenance Technician, which is required for employment in this field. Students desiring a Bachelor's Degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses.

Requirements for the Major *Required courses:*

| Aircraft Powerplant | 13.0 | CSU |
|--|--|--|
| Aircraft Powerplant | 13.0 | |
| Airframe Maintenance Technology | 13.0 | CSU |
| Airframe Maintenance Technology | 13.0 | |
| Aircraft Maintenance Electricity and Electronics | 3.0 | |
| Aircraft Maintenance Electricity and Electronics | 3.0 | |
| Aviation Maintenance Science | 6.0 | |
| Aviation Materials and Processes | 1.5 | |
| Aviation Welding | 1.5 | |
| Total Units | 67.0 | |
| ded Electives: | | |
| Aircraft Maintenance Technology - Work Experience | / | |
| Lab Studies in Aircraft Maintenance Technology | | |
| Technical Engineering Drawing I | I | |
| Survey of Electronics | | |
| Technical Mathematics | | |
| | Maintenance Technology Aircraft Powerplant Maintenance Technology Airframe Maintenance Technology Airframe Maintenance Technology Aircraft Maintenance Electricity and Electronics Aircraft Maintenance Electricity and Electronics Aviation Maintenance Science Aviation Materials and Processes Aviation Welding Total Units Aircraft Maintenance Technology - Work Experience Lab Studies in Aircraft Maintenance Technology Technical Engineering Drawing I Survey of Electronics | Maintenance TechnologyAircraft Powerplant13.0Maintenance Technology13.0Airframe Maintenance13.0Technology13.0Airframe Maintenance13.0Technology3.0Aircraft Maintenance Electricity3.0and Electronics3.0Aircraft Maintenance Electricity3.0and Electronics6.0Aviation Maintenance Science6.0Aviation Materials and Processes1.5Total Units67.0Hercraft Maintenance Technology-Work ExperienceLab Studies in AircraftMaintenance TechnologyTechnical Engineering Drawing IISurvey of Electronics |

- Manufacturing Applications PHYS 1 Physics

Alcohol/Drug Counseling Public Services Department Major S2101

In this program the student integrates theory and practical experience in developing skills necessary to work with the alcohol and drug abuse population as well as families and employers of chemically-dependent persons. The curriculum is designed to meet the credentialing requirements of the California Association of Alcohol/Drug Educators. Students who complete this option qualify for employment in a variety of chemical-dependant settings. SOC 14

SOC 15

Marriage and the Family

Child Development

Requirements for the Major *Required core courses:*

| Required co | re courses: | | |
|----------------|--|-----|--------|
| AD 1 | Alcohol/Drug Dependency | 3.0 | CSU |
| AD 2 | Physiological Effects of Alcohol/Drugs | 3.0 | CSU |
| AD 3 | Chemical Dependency: Intervention, Treatment and Record | | CSU |
| AD 4 | Issues in Domestic Violence | 3.0 | |
| AD 5 | Chemical Dependency: Prevention and Education | 1.5 | CSU |
| AD 6 | Dual Diagnosis | 3.0 | CSU |
| Required sk | illed courses: | | |
| AD 8 | Group Process and Leadership | 3.0 | |
| AD 9 | Family Counseling | 3.0 | |
| AD 10 | Client Record and Documentation | 1.5 | |
| AD 11 | Techniques of Intervention and Referral | 3.0 | |
| Required fie | eld work courses: | | |
| AD 13 | Internship/Seminar | 3.5 | CSU |
| AD 14 | Advanced Internship/Seminar | 3.5 | CSU |
| PLUS | | | |
| Select six (6, |) units from: | | |
| CHLD 10 | Child Growth and Development | 3.0 | CSU,UC |
| | <u>or</u> | | |
| CHLD 10H | Child Growth and Development - Honors | 3.0 | CSU,UC |
| PSYC 1A | Introduction to Psychology | 3.0 | CSU,UC |
| | | | |

or

<u>or</u>

PSYC 19

SOC 1H

SOC 1

PSYC 1AH Introduction to Psychology

Abnormal Psychology

Sociology - Honors

- Honors

Sociology

| | | Joe 15 Cillia Developii | J.0 CJ0,0C |
|-----------------|--------------------|---|--|
| | | Total Units | 40.0 |
| | | Eligibility Requireme | ents |
| y and | | and Selection Procee | lures |
| essary as we | to work | Eligibility Requirements: | |
| | ell as persons. | File a College application | on and be accepted as a |
| ential | | student at Mt. San Ant | tonio College. |
| | hol/Drug | Selection Procedures A | All classes are open to all |
| | alify for | | Imission requirements and |
| lant s | settings. | course prerequisites. | |
| | | Special Instructions: | |
| | | a) Restricted Electives m | |
| | CSU | enrollment in Field Ex | |
| | CSU | core and skills courses | |
| | CSU | | dit Classes for sequence of courses |
| overy | | | division office at (909) 594- |
| 3.0 | CSU | 5611, ext. 4750 | |
| 1.5 | 00 | Working environment: | |
| 3.0 | CSU | May be exposed to inf without prior notificat | ectious and contagious disease, ion |
| 3.0 | | May be exposed to the | e risk of blood borne diseases |
| 3.0 | | | agents, body fluids and wastes |
| n 1.5 | | | emicals and specimens |
| 3.0 | | | Tammable, explosive gases |
| | | Subject to huzulus of f Subject to burns and c | |
| | | • | |
| 3.5 | CSU | culture, ethnicity, race, | having different religious, |
| 3.5 | CSU | | sical disabilities, and under a |
| | | wide variety of circum | - |
| 3.0 | CSU,UC | Handle emergency or | |
| 5.0 | 00,00 | Subject to many interr | ruptions |
| 3.0 | CSU,UC | Requires decisions/act | tions related to end of life issues |
| | | Exposed to products of | ontaining latex |
| 3.0 | CSU,UC | Exposure to a highly d | harged emotional environment |
| | | which can be stressful | 2 |
| 3.0 | CSU,UC | English Language Skills: | |
| 30 | CSU,UC | Although proficiency in Eng | lish is not a criteria for |
| | CSU,UC | admission into the nursing | program, students are |
| 5.0 | 00,00 | | peak, write and read English to |
| 3.0 | CSU,UC | complete classes successful themselves and for others. | ly and to ensure safety for |
| | | | |

| 3.0 CSU,UC | |
|------------|-----------|
| 3.0 CSU,UC | Animation |

Commercial and Entertainment Arts Major S1006

The Animation Program offers an integrated/ interdisciplinary approach to prepare students to meet current and future job market demands. The student will be given a balanced blend of art and technology-based skills which are essential for today's careers in animation. The program offers both an A.S. Degree and certificates. Course content is driven by industry needs in order to provide the student with the best possible preparation fo a career in animation or for transfer to an institution of higher learning.

Requirements for the Major *Required courses:*

| nequireu co | urses. | | |
|--------------|---------------------------------|------|--------|
| ANIM 101 | Drawing - Gesture and Figure | 3.0 | CSU |
| ANIM 104 | Drawing Fundamentals | 3.0 | CSU |
| | <u>or</u> | | |
| ARTD 15A | Drawing: Beginning | 3.0 | CSU,UC |
| ANIM 108 | Principles of Animation | 3.0 | CSU |
| ANIM 115 | Storyboarding | 3.0 | |
| ANIM 116 | Character Development | 1.5 | |
| ANIM 119 | Portfolio | 1.5 | |
| ANIM 130 | Introduction to 3-D | 3.0 | |
| | Computer Animation | | |
| ARTC 70 | Computer Graphics: Introduction | 3.0 | |
| ARTD 17A | Drawing: Life | 3.0 | CSU,UC |
| ARTD 20 | Design: Two Dimensional | 3.0 | CSU,UC |
| ARTS 22 | Design:Three-Dimensional | 3.0 | CSU,UC |
| PLUS | | | |
| Select one (| 2) courses from: | | |
| ANIM 117 | Animation Background Layout | 3.0 | CSU |
| ANIM 120 | Script Development | 3.0 | |
| | for Animation | | |
| ANIM 132 | Modeling, Texture Mapping | 3.0 | |
| | and Lighting | | |
| ANIM 175 | Web Animation With Flash | 3.0 | |
| ARTD 16 | Drawing: Perspective | 3.0 | CSU,UC |
| | | 36.0 | |
| | ded Electives: | | |
| AHIS 4 | History of Western Art: | | |
| | Prehistoric Through Gothic | | |
| AHIS 5 | History of Western Art: | | |
| ANIM 107 | Renaissance Through Modern | | |
| | Figure in Motion | | |
| ANIM 109 | Advanced Principles of Animatio | n | |

ANIM 111 Animal Drawing

ANIM 118Background PaintingANIM 120Script Development for AnimationANIM 134Dynamic Digital EnvironmentsANIM 135Visual Effects II: Particle SystemsANIM 148Demo-ReelARTD 25APainting: Beginning

Architectural Technolog - Design Concentration Architecture and Engineering Design Department Major S0202

This program prepares students to enter the field of architecture and related areas. The student is provided with an option of direct employment into the field or preparation for transfer to the professional school of architecture. Two concentrations are available. The Design Concentration focuses upon studio-based design projects. drawing, and presentation skills. The student will develop a portfolio of work relevant to their Concentration. A certificate program is also available. **Requirements for the Major Reauired courses:** ARCH 10 Design I - Elements of Design 3.0 CSU Architectural Drawing ARCH 11 3.0 CSU,UC ARCH 12 Architectural Materials 3.0 CSU and Specifications ARCH 13 Architectural Illustration 3.0 CSU,UC ARCH 16 Basic CAD and Computer 4.0 CSU,UC Application ARCH 21 Design II - Architectural Design 3.0 CSU ARCH 23 Architectural Presentations 3.0 CSU ARCH 27 Design III - Environmental Design 3.0 CSU,UC 3.0 CSU ARCH 29 Design IV - Advanced Project ARCH 31 World Architecture I 3.0 CSU ARCH 32 World Architecture II 3.0 CSU,UC PLUS Select one (1) course from: ARCH 15 Architectural Working 3.0 CSU Drawings - I ARCH 18 Architectural Computer 3.0 Aided Design Elements PLUS Select one (1) course from: ARCH 14 Building and Zoning Codes 3.0 ARCH 15 Architectural Working 3.0 CSU Drawings - I

AERO 30

Instrument Ground School

3.0 CSU

| ARCH 18 | Architectural Computer Aided Design Elements | 3.0 | |
|--------------|--|-----------|---------|
| ARCH 26 | Architectural CAD | 3.0 | |
| | Working Drawings | | |
| ARCH 28 | Architectural CAD | 3.0 | CSU |
| | 3-D Illustration and Animation | | |
| ARCH 89 | Architectural Work Experience | 1.0 | |
| ARCH 90 | Architectural Work Experience | 2.0 | |
| INSP 70 | Elements of Construction | 3.0 | CSU |
| | Total Units | 38.0 | - 40.0 |
| Recommen | ded Electives: | | |
| ARTD 15A | Drawing: Beginning | | |
| ARTD 20 | Design: Two Dimensional | | |
| ARTS 22 | Design: Three-Dimensional | | |
| BIOL 6 | Humans and the Environment | | |
| ENGL 1C | Critical Thinking and Writing | | |
| MATH 150 | Trigonometry | | |
| PHYS 2AG | General Physics | | |
| ENGL 1C, M | ATH 150, and PHYS 2AG are typ | ically re | equired |
| | to a professional school of arch | | |
| all requiren | nents with the transfer institution | on. | |
| | | | |
| | ctural Technology - | | |
| | logy Concentration | | |
| Architect | ure and Engineering | | |
| - | epartment | | |
| Major S0 | | | |
| | m prepares students to enter th | | |
| | e and related areas. The student | | |
| | tion of direct employment into the formation of the transfer to the professional to th | | |
| | e. Two concentrations are availab | | 01 |
| | Concentration focuses upon built | | ind |
| | n technology, documentation, co | | |
| | pplications. Current technology | | |
| | are integrated into the program | | |

Requirements for the Major Required courses: ADCU 10 Decign L Ela

program is also available.

| ARCH 10 | Design I - Elements of Design | 3.0 | CSU |
|---------|---|-----|--------|
| ARCH 11 | Architectural Drawing | 3.0 | CSU,UC |
| ARCH 12 | Architectural Materials and Specifications | 3.0 | CSU |
| ARCH 14 | Building and Zoning Codes | 3.0 | |
| ARCH 15 | Architectural Working Drawings - I | 3.0 | CSU |
| ARCH 16 | Basic CAD and Computer Application | 4.0 | CSU,UC |
| | | | |

| gree | | | | |
|--------------|--|---------|-----------|---|
| ARCH 18 | Architectural Computer Aided Design Elements | 3.0 | | |
| ARCH 26 | Architectural CAD Working Drawings | 3.0 | | |
| ARCH 28 | Architectural CAD 3-D Illustration and Animation | 3.0 | CSU | |
| ARCH 29 | Design IV - Advanced Project | 3.0 | CSU | |
| EDT 20 | Technical Descriptive Geometry | 3.0 | CSU | |
| INSP 70 | Elements of Construction | 3.0 | CSU | |
| PLUS | | | | |
| Select one | (1) course from: | | | |
| ARCH 13 | Architectural Illustration | 3.0 | CSU,UC | |
| ARCH 21 | Design II - Architectural Design | 3.0 | CSU | |
| ARCH 23 | Architectural Presentations | 3.0 | CSU | |
| ARCH 31 | World Architecture I | 3.0 | CSU,UC | |
| ARCH 32 | World Architecture II | 3.0 | CSU,UC | |
| ARCH 89 | Architectural Work Experience | 1.0 | - 2.0 | |
| EDT 26 | Civil Engineering Technology and CAD | 3.0 | CSU | |
| INSP 71 | Construction Estimating | 3.0 | CSU | |
| | Total Units | 38.0 | - 40.0 | |
| Recommen | ded Electives: | | | |
| MATH 150 | Trigonometry | | | |
| PHYS 2AG | General Physics | | | |
| | AND PHYS 2AG typically are requ | | | |
| | a professional school of architect | ure. Ve | erify all | |
| requiremer | nts with the transfer institution. | | | |
| Aviatio | on Science | | | |
| | tics, Transportation | | | |
| | el Department | | | |
| Major S0 | 910 | | | |
| This curricu | Ilum meets the requirements of t | he Fe | deral | |
| | Iministration Collegiate Training I | | | |
| Under an e | ducational partnership agreemer | ıt witl | h the | |
| | TI program prepares students for | | | |
| | reers. Students completing this C | | | |
| | commended by the college for hir traffic controllers. | ing by | y the | |
| | ments for the Major | | | |
| Required co | | | 6611 | |
| AERO 23 | Primary Pilot Ground School | | CSU | |
| AERO 24 | Navigation | 3.0 | | |
| AERO 26 | Aviation Weather | | CSU | |
| AERO 27 | Aviation Safety and Human Factors | 3.0 | CSU | |
| AERO 29 | Federal Aviation Regulations | 2.0 | CSU | |
| | | | <i>cc</i> | 1 |

| AIRT 41 | Aircraft Recognition and Performance | 2.0 | CSU | Busi |
|--------------|---|----------|------------|--------------------|
| AIRT 42 | Air Traffic Control Environment | 3.0 | CSU | Accou |
| AIRT 43 | Air Traffic Control Team Skills | 1.5 | CSU | Major |
| CISB 11 | Computer Information Systems | 3.5 | CSU,UC | This pro |
| TRAN 17 | Air Transportation | 3.0 | CSU | the role |
| | Total Units | 31.0 | | with ca |
| Recommend | ded Electives: | | | trends i |
| AERO 25 | Commercial Pilot Ground Schoo | I | | program |
| AERO 28 | Aircraft and Engines | | | in retai |
| AERO 40 | Flight | | | Requi |
| AERO 40L | Flight Laboratory | | | Require |
| BUSM 60 | Human Relations in Business | | | BUSA 7 |
| Busines | ss: Management | | | BUSA 7 |
| Accountin | ng and Management Depa | artme | nt | BUSA 1 |
| Major S05 | 506 | | | BUSM 6 |
| This program | n is intended to prepare studen | ts for | | BUSM 6 |
| | t following graduation. Student | | | |
| | egree (transfer program) should | | | BUSM 6 |
| a counselor | or advisor to discuss transferab | ility of | courses. | BUSO 2 |
| • | nents for the Major | | | BUSO 2 |
| Required co | | | | |
| BUSA 7 | Principles of Accounting | 5.0 | CSU,UC | BUSS 36 |
| DUCLAR | - Financial | | | CISB 15 |
| BUSM 10 | Principles of Continuous Quality Improvement | 3.0 | | FASH 62 |
| BUSM 20 | Principles of Business | 3.0 | CSU,UC | |
| BUSM 51 | Principles of International | 3.0 | , | |
| | Business | | | BUSS 50 |
| BUSM 60 | Human Relations in Business | | CSU | |
| BUSM 61 | Business Organization | 3.0 | CSU | |
| | and Management | 2.0 | | Cher |
| BUSM 62 | Human Resource Management | 3.0 | CCU | Biolog |
| BUSS 36 | Principles of Marketing | 3.0 | | Major |
| CISB 15 | Microcomputer Applications Total Units | 4.0 | CSU,UC | This pro |
| | | 30.0 | | to prep |
| | led Electives: | | | chemica |
| BUSM 81 | Work Experience in Business | | | control, |
| BUSM 85 | Special Issues in Business | | | water q |
| BUSS 85 | Special Issues in Marketing | | | progran |
| | | | | options |
| | | | | instrum shootin |
| | | | | |
| | | | | Requi Require |
| | | | | BUSM 1 |
| | | | | ן ואוכטט |
| | | | | |

iness: Retail Management unting and Management Department r S0509

| | | 509 | | | | | | |
|---|--|--|------|--------|--|--|--|--|
| - | This program exposes students to the business world and the role of retail distribution. Students become familiar with careers in retail management as well as the latest trends in this fast changing field. Completion of this program aids the student's search for an entry-level job in retail management. | | | | | | | |
| | Requirer | nents for the Major | | | | | | |
| | Required co | ourses: | | | | | | |
| | BUSA 7 | Principles of Accounting - Financial | 5.0 | CSU,UC | | | | |
| - | | <u>or</u> | | | | | | |
| | BUSA 72 | Bookkeeping - Accounting | 5.0 | | | | | |
| | BUSA 11 | Fundamentals of Accounting | 3.0 | | | | | |
| | BUSM 60 | Human Relations in Business | 3.0 | CSU | | | | |
| | BUSM 61 | Business Organization and Management | 3.0 | CSU | | | | |
| | BUSM 62 | Human Resource Management | 3.0 | | | | | |
| • | BUSO 25 | Business Communications | 3.0 | CSU | | | | |
| | BUSO 26 | Oral Communications for Business | 3.0 | | | | | |
| - | BUSS 36 | Principles of Marketing | 3.0 | CSU | | | | |
| | CISB 15 | Microcomputer Applications | 4.0 | CSU,UC | | | | |
| _ | FASH 62 | Retail Store Management and Merchandising | 3.0 | CSU | | | | |
| • | | <u>or</u> | | | | | | |
| | BUSS 50 | Retail Store Management and Merchandising | 3.0 | | | | | |
| | | Total Units | 33.0 | | | | | |
| | | | | | | | | |

emical Laboratory Technician ogical Sciences Department r S0950

rogram provides theoretical and technical training pare students for employment as entry-level cal technicians in fields such as chemical quality ol, chemical process control, analytical chemistry, quality, and research and development. The am includes a broad-based overview of workforce ns and emphasizes development of analytical skills, ment proficiency, critical thinking, and troubleing of experimental designs and outcomes.

uirements for the Major red courses:

10 Principles of Continuous 3.0 Quality Improvement

| | | | | | | | | | Pro | grams Lo | eading to an Associat | es Degree |
|-------------|---|---------------|--|---|---|-------|---|--|--------------------|--|--|-------------|
| CHEM 20 | Introductory Organic | 5.0 CSU,UC | CHLD 66 | Early Childhood Development | 2.0 CS | 50 | | flight training, students may ach | | | ments for the Major | |
| | and Biochemistry | | | Observation | 10.00 | -11 | | l pilot certificate and instrument | rating | - | ore courses: | |
| CHEM 50 | General Chemistry I | 5.0 CSU,UC | CHLD 66L | Early Childhood Development Observation Laboratory | 1.0 CS | 50 | | ously with the A.S. Degree. | | CISB 11 | Computer Information Systems | |
| CHEM 51 | General Chemistry II | 5.0 CSU,UC | CHLD 67 | Early Childhood Development | 2.0 CS | | | ments for the Major | | CISB 15 | Microcomputer Applications | 4.0 CSU,UC |
| CHEM 60 | Quantitative Chemical Analysis | 5.0 CSU,UC | CILD 07 | Participation | 2.0 CJ | 50 | Required c | | 4.0. (01) | CISM 11 | Systems Analysis and Design | 3.5 CSU,UC |
| CHEM 75 | Instrumental Analysis | 5.0 | CHLD 67L | Early Childhood Development | 1.0 CS | 50 | AERO 23 | Primary Pilot Ground School | 4.0 CSU | CISN 21 | Windows Operating System | 4.0 |
| CHMT 1 | Introduction to Chemical Laboratory Technology | 3.0 | | Participation Laboratory | 1.0 05 | | AERO 24 | Navigation | 3.0 CSU | CICH 24 | <u>or</u> | |
| CHMT 8 | Work Experience in Chemical | 1.0 | CHLD 68 | Children With Special Needs | 3.0 CS | 50 | AERO 25 | Commercial Pilot Ground Schoo | | CISN 31 | Linux Operating Systems | 4.0 |
| CHINITO | Technology | 1.0 | CHLD 69 | Early Childhood Development | 2.0 CS | | AERO 26 | Aviation Weather | 3.0 CSU | BUSM 20 | Principles of Business | 3.0 |
| CHMT 9 | Work Experience in Chemical | 2.0 | | Field Work Seminar | | | AERO 27 | Aviation Safety and Human Factors | 3.0 CSU | DUCLASS | <u>or</u> | 2.0 |
| | Technology | 2.0 | CHLD 84 | Guidance and Discipline | 1.0 CS | 50 | | Aircraft and Engines | 2.0 ((1) | BUSM 25 | Principles of E-Commerce | 3.0 |
| PLUS | | | | in Child Development Settings | | | AERO 28 AERO 29 | 2 | 3.0 CSU 2.0 CSU | DUICA 7 | <u>or</u> | 5.0 |
| |) units from: | | CHLD 91 | Early Childhood Development | 1.0 CS | 50 | | Federal Aviation Regulations | | BUSA 7 | Principles of Accounting | 5.0 |
| CHMT 5 | Elementary Principles | 2.0 CSU | | Field Work | | | AERO 30 | Instrument Ground School | 3.0 CSU | | - Financial | |
| | of Chemical Processing | 2.0 (30 | | Total Units | 28.0 | | TRAN 17 | Air Transportation | 3.0 CSU | PLUS | | |
| MICR 22 | Microbiology | 4.0 CSU,UC | | courses are acceptable for the Cl | | | | Total Units | 27.0 | | of the following two concentration | ons: |
| PHIL 12 | Ethics | 3.0 CSU,UC | | nt requirements leading to the Ch | nild | | | nded Electives: | | | Concentration: | |
| | <u>or</u> | 5.0 050,00 | Developme | nt Permit. | | | AERO 40 | Flight | | CISD 11 | Database Management | 4.0 CSU |
| PHIL 12H | Ethics - Honors | 3.0 CSU,UC | Recommen | nded Electives: | | | AERO 40L | Flight Laboratory | | - Microsoft | | |
| SPCH 26 | Interpersonal Communication | 3.0 CSU,UC | CHLD 50 | Multicultural Education: Anti-B | ias Perspec | ctive | AERO 41 | Basic Flight Simulator Laborato | | CISD 14 | Advanced Database | 4.0 |
| 51 CH 20 | <u>or</u> | 5.0 (50,00 | CHLD 51 | Early Literacy in Child Developr | nent | | AERO 58 | Flight Instructor Ground School | | | Management - Microsoft Access | |
| SPCH 26H | Interpersonal Communication | 3.0 CSU,UC | CHLD 61 | Language Arts & Art Media for | Young Chil | ldren | AIRT 41 | Aircraft Recognition and Perform | | CISD 21 | Database Management - Microsoft SQL Server | 4.0 |
| 51 CH 2011 | - Honors | 5.0 (50,00 | CHLD 62 | Music and Motor Development | | | CISB 11 | Computer Information Systems | | CISD 40 | Database Design | 3.0 |
| | Total Units | 40.0 | | for Young Children | | | | ercial Flight faculty recommend | | | centration: | 5.0 |
| | | | CHLD 63 | Creative Sciencing and Math | | | | nt their studies with selected ele | | | | 4.0 |
| Child D | evelopment | | | for Young Children | | | | m the list above. Students should | | CISD 31 CISD 32 | Database Management - Oracle Oracle Forms and reports | 4.0 4.0 |
| | velopment | | CHLD 71A Administration of Child Development | | professor of commercial flight to help them determine | | CISD 32 CISD 40 | Database Design | 4.0 3.0 | | | |
| Major S13 | • | | CHLD 71B | Programs Management/Marketing/Perso | nnal | | which electives would best suit their career plans. | | CI3D 40 | Total Units | 29.0 – 35.0 | |
| • | m introduces students to the stu | dy of young | | for ECD Programs | inner | | <u> </u> | ten Detakere Mene | | | Iotal Units | 29.0 - 33.0 |
| | d their education and prepares st | | CHLD 72 | Teacher, Parent, and Child Relat | ionshins | | Computer - Database Management | | C | ten Constitue | | |
| | t following graduation in the fie | | CHLD 72 | Infant/Toddler Care and Develo | | | System | | | Computer Graphics | | |
| | nt. An Associate of Science Degre | | CILD 75 | | pinent | | Computer Information Systems Department | | | Design/Photography | | |
| | are offered. Students desiring a E | | Comm | oveial Eliabt | | | Major S0 | | | | cial and Entertainment Art | S |
| | nsfer program) should consult wi | | | ercial Flight tics, Transportation | | | | iter Information Systems major i | | Major S1 | | |
| counselor o | r advisor to discuss transferability | y of courses. | | el Department | | | | ading to the Associate of Science | | This program is designed to prepare students for | | |
| Requiren | nents for the Major | | Major S0 | • | | | | e program is designed to prepare nt in a computer field following | | | nt in the field of computer | |
| Required co | | | - | ercial Flight curriculum prepares | ctudante | for | | vishing a Bachelors' Degree (tran | | | hotography. A variety of career of le in art, cinema, communication | |
| CHLD 1 | Child, Family and Community | 3.0 CSU,UC | | aircraft pilots as well as related (| | 101 | | et with a counselor or advisor to | | | ics, and journalism. Students des | |
| CHLD 5 | Principles/Practices | 3.0 CSU | | s in aviation. Students have the | , | itv | | lity of courses. | discuss | | degree should consult with a cou | |
| | in Child Development Programs | | | al flight training with commensu | | | | k includes a list of core courses a | lenoitibbe bn | | the catalog of the institution the | |
| CHLD 6 | Survey of Child Development | 3.0 CSU | | pilot license is not required for a | | | | each concentration. The Databa | | | address transferability of courses. | |
| | Curriculum | | | ble for career advancement. | - | | | ent Systems Concentration includ | | | ments for the Major | |
| CHLD 10 | Child Growth and Development | 3.0 CSU,UC | This progra | m prepares students for military | v and civili | ian | | gn, development and maintenan | | Required of | | |
| | <u>or</u> | | | reers through transfer programs | | | | Students choosing this concentra | | GRAP 1 | Computer Graphics Lab | 1.0 |
| CHLD 10H | Child Growth and Development | 3.0 CSU,UC | | ation curricula throughout the n | | | | electing either the Microsoft or (| | GRAP 10 | Photo Editing with Photoshop | 3.0 |
| | - Honors | | | - | | | concentrat | ion. | | GRAP 12 | Advanced Photo Editing | 3.0 |
| CHLD 64 | Health, Safety and Nutrition | 3.0 CSU | | | | | | | | 5100 12 | with Photoshop | 5.0 |
| | of Young Children | | | | | | | | | | I I | |

Section 8 73

| GRAP 14 | Digital Color Management | 3.0 | |
|---------|---|-------------|--------|
| GRAP 16 | Digital Image Design | 3.0 | |
| | with Illustrator & Freehand | | |
| GRAP 18 | Advanced Image Design - 3D Modeling Techniques | 3.0 | |
| GRAP 20 | Applying Photos | 3.0 | |
| | and Images in Multimedia | | |
| GRAP 28 | Digital Portfolio | 2.0 | |
| PHOT 10 | Beginning Photography | 3.0 | CSU,UC |
| PHOT 17 | Photocommunication | 3.0 | |
| | Total Units | 27.0 | |
| Recomme | nded Electives: | | |
| AHIS 1 | Understanding the Visual Ar | ts | |
| | <u>or</u> | | |
| ARTB 1 | Understanding the Visual Ar | ts | |
| COMP 10 | Operating the Macintosh Cor | nputer | |
| GRAP 24 | Work Experience in Compute | er Graphics | 5 |
| PHOT 1 | Laboratory Studies: | - | |
| | Black and White Photograph | y | |
| PHOT 2 | Laboratory Studies: Color Ph | otography | , |
| PHOT 4 | Digital Cameras and Compos | ition | |
| | History of Photography | | |

Electronics and Computer Technology

Major S0725 The Computer and Networking Technology major prepares students to enter the computer and networking fields as service technicians. The program provides foundations in relations. The student will be prepared to perform

| Requirements for the Major Required courses: | | | | | | | |
|---|---|------|--------|--|--|--|--|
| CNET 50 | PC Servicing | 4.0 | | | | | |
| CNET 52 | PC Operating Systems | 4.0 | | | | | |
| CNET 54 | PC Troubleshooting | 4.0 | | | | | |
| CNET 56 | Computer Networks | 4.0 | | | | | |
| CNET 60 | A+ Certification Preparation | 3.0 | | | | | |
| CNET 62 | Network+ | 3.0 | | | | | |
| | Certification Preparation | | | | | | |
| CNET 64 | Server + | 3.0 | | | | | |
| | Certification Preparation | | | | | | |
| CNET 66 | Security + | 3.0 | | | | | |
| | Certification Preparation | | | | | | |
| ELEC 11 | Technical Applications in Microcomputers | 3.0 | CSU | | | | |
| | <u>or</u> | | | | | | |
| CISB 15 | Microcomputer Applications | 4.0 | CSU,UC | | | | |
| ELEC 50A | Electronic Circuits (DC) | 4.0 | CSU | | | | |
| ELEC 50B | Electronic Circuits (AC) | 4.0 | CSU | | | | |
| ELEC 56 | Digital Electronics | 4.0 | CSU | | | | |
| TECH 60 | Customer Relations | 1.0 | | | | | |
| | for the Technician | | | | | | |
| | Total Units | 44.0 | 45.0 | | | | |
| Recomment | ded Electives: | | | | | | |
| ELEC 51 | Electronic Devices | | | | | | |
| | | | | | | | |

ELEC 74 Microprocessor Systems

Computer Network Administration and Security Management **Computer Information Systems Department** Major S0701

Computer Network Administration and Security Management is a two-year program leading to the Associate of Science (A.S.) Degree. It prepares individuals for employment in the computer/information technology field in such areas as network administrator and security management administrator.

The curriculum is intended to help students develop skills to design, administer and manage the heterogeneous corporate network with security emphasis. The courses examine and illustrate network security with various industry-leading network operating systems. Individual courses will assist students in preparing for related industry certification exams.

The main objective of the degree is to prepare students for employment following graduation. Students wishing a Bachelor's Degree should meet with a counselor or advisor for choices to transfer to available CSU joint degree programs.

| nequiren | iento ior the major | | | |
|--------------|-------------------------------------|------|--------|------|
| Required co | urses: | | | BUS |
| CISN 11 | Telecommunications/ | 4.0 | CSU | |
| | Networking Fundamentals | | | BUS |
| CISN 24 | Microsoft NT Network | 4.0 | CSU | |
| | System Administration | | | BUS |
| CISN 51 | Cisco CCNA Networking | 4.0 | CSU | |
| | Fundamentals and Routing | | | CISE |
| CISS 21 | Network Vulnerabilities | 4.0 | CSU | |
| | and Countermeasures | | | |
| CISS 23 | Network Analysis and NIDS | 4.0 | CSU | |
| CISS 25 | Network Security and Firewalls | 4.0 | CSU | |
| SL 2 | Linked Service Learning | 1.0 | CSU | |
| PLUS | | | | CISE |
| Select one (| 1) course from: | | | PLU |
| CISB 11 | Computer Information Systems | 3.5 | CSU,UC | One |
| CISN 21 | Windows Operating System | 4.0 | CSU | (+- |
| CISN 31 | Linux Operating System | 4.0 | CSU | CISF |
| CISN 34 | LINUX Networking and Security | 4.0 | CSU | CISE |
| CISN 41 | Novell Netware Systems | 4.0 | CSU | Visu |
| | Administration | | | CISF |
| | Total Units | 28.5 | - 29.0 | CISF |
| | | | | |

Requirements for the Major

Computer Programming Computer Information Systems Department Major S0709

The Computer Programming major is a two-year program leading to the Associate in Science (A.S.) Degree. It is designed to prepare students for employment as a computer programmer following graduation. Students wishing a Bachelor's Degree (transfer program) should meet with a counselor or advisor to discuss transferability of courses.

Course work includes a list of core courses and additional courses for each concentration. The Computer Programming degree emphasizes the development of applications in a business environment using objectoriented methodologies. Students may select one of four programming language concentrations: C++, Visual Basic, Java or C#.

Requirements for the Major Required courses:

| CISB 11 | Computer Information Systems | 3.5 | CSU,UC |
|---------|------------------------------|-----|--------|
| CISB 15 | Microcomputer Applications | 4.0 | CSU,UC |
| CISM 11 | Systems Analysis and Design | 3.5 | CSU,UC |
| CISN 21 | Windows Operating System | 4.0 | |
| | <u>or</u> | | |
| CISN 31 | Linux Operating System | 4.0 | |
| | | | |

SM 20 Principles of Business 3.0 or SM 25 Principles of E-Commerce 3.0 or Principles of Accounting SA 7 5.0 - Financial SD 11 Database Management 4.0 - Microsoft Access or SD 21 Database Management 4.0 - Microsoft SQL Server D 31 Database Management - Oracle 4.0 US e of the following concentrations: +: P 31 Programming in C++ 4.0 P 34 Advanced C++ Programming 4.0 sual Basic: P 11 Programming in Visual Basic 4.0 P 14 Advanced Visual Basic 4.0 Programming Java: CISP 21 4.0 Programming in Java Advanced Java Programming CISP 24 4.0 С#:

Object-Oriented Design

2.0

CISP 10

CISP 41 Programming in C# 4.0 CISP 44 Advanced Programming in C# 4.0 **Total Units** 32.0 - 34.0

Construction Inspection Architecture and Engineering **Design Department** Maior S0920

This program is intended to prepare students for employment following graduation. Students desiring a Bachelor's Degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses.

Requirements for the Major Reauired courses:

| CSU,UC | ARCH 12 | Architectural Materials and Specifications | 3.0 | CSU |
|------------------|---------|---|-----|-----|
| CSU,UC CSU,UC | ARCH 14 | Building and Zoning Codes | 3.0 | |
| CSU,UC | INSP 17 | Legal Aspects of Construction | 3.0 | CSU |
| | INSP 70 | Elements of Construction | 3.0 | CSU |
| | INSP 71 | Construction Estimating | 3.0 | CSU |
| | | | | |

Technology Department

PROGRAMS LEADING TO AN ASSOCIATES DEGREE

basic electronics, computer servicing, operating systems, network/server servicing, security systems and customer installation, software configuration and the maintenance, operation, troubleshooting and repair of computers and their associated networking software/hardware. In addition, the program prepares students to take the A+ Network+, Server+ and Security+ certification tests offered at testing centers throughout the country. These certifications are CompTIA sponsored and are worldwiderecognized industry benchmarks for the computer and networking technician. Multi-level certificates are also available.

| INSP 87 | Fundamentals of Construction Inspection | 3.0 |
|----------|--|-------|
| | Total Units | 18.0 |
| Recommen | nded Electives: | |
| ARCH 11 | Architectural Drawing | |
| ARCH 15 | Architectural Working Drawing | s - I |
| INSP 67 | Reading Construction Drawings | ; |

Correctional Sciences Public Services Department Major S2103

Correctional Sciences is the application of law, social, and natural sciences to the social phenomenon of crime and delinquency. The discipline addresses definitions, causation, prevention, discovery, procedures, treatment and rehabilitation, quantification, and research in both criminal and civil aspects. This program is intended to prepare students for employment following graduation. Students desiring a Bachelor's Degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses.

Requirements for the Major *Required courses:*

| ADJU 68 | Administration of Justice Report Writing | 3.0 | |
|-------------|--|-----|--------|
| CORS 10 | Introduction to Correctional Sciences | 3.0 | CSU |
| CORS 15 | Control and Supervision of the Offender | 3.0 | |
| CORS 20 | Correctional Law | 3.0 | |
| CORS 25 | Probation and Parole | 3.0 | |
| CORS 30 | Ethnic Relations in Corrections | 3.0 | |
| PLUS | | | |
| Select four | (4) courses from: | | |
| ADJU 1 | The Administration of Justice System | 3.0 | CSU,UC |
| ADJU 2 | Principles and Procedures of the Justice System | 3.0 | CSU |
| ADJU 20 | Principles of Investigation | 3.0 | CSU |
| ADJU 38 | Narcotics Investigation | 3.0 | |
| ADJU 59 | Gangs in the Community/ Corrections | 3.0 | CSU |
| CORS 35 | Interviewing and Counseling in Corrections | 3.0 | |
| | | | |
| | | | |
| | | | |

| CORS 40 | Crime and Delinquency | 3.0 | |
|-------------|---|----------------------|--|
| CORS 45 | The Violent Offender | 3.0 | |
| | Total Units | 30.0 | |
| Recommen | ded Electives: | | |
| PE-F 50 | E-F 50 Physical Skills Preparation for Law Enforcement and Fire Science | | |
| PE-F 51 | -F 51 Agility Testing Preparation for Law Enforcement and Fire Science | | |
| PE-F 52 | Fitness and Conditioning f Fire Science and Forestry | for Law Enforcement, | |
| SPAN 66 | Spanish for Fire and Police | Personnel | |
| students co | ional Sciences faculty recom mplement their studies wi sen from the list above St | th selected elective | |

students complement their studies with selected elective courses chosen from the list above. Students should meet with a professor of Correctional Sciences to help them determine which electives would best suit their career plans.

Educational Paraprofessional Psychology and Education Department Major S2117

This degree program in the field of education prepares paraprofessionals in a variety of areas, emphasizing working with children to enhance their learning development. Graduates will be able to assist classroom teachers in working with K-12 students, including students with special needs. This associate degree certifies that paraprofessionals are "highly qualified" according to current federal legislation.

Requirements for the Major Required courses:

| CHLD 1 | Child, Family and Community | 3.0 | CSU,UC |
|----------|-----------------------------------|---------|----------|
| CHLD 10 | Child Growth and Development | 3.0 | CSU,UC |
| | <u>or</u> | | |
| PSYC 14 | Developmental Psychology | 3.0 | CSU,UC |
| CHLD 68 | Children With Special Needs | 3.0 | CSU |
| EDUC 10 | Introduction to Education | 3.0 | CSU,UC |
| EDUC 16 | Aspects and Issues | 3.0 | CSU,UC |
| | in Teaching Service Learning | | |
| ENGL 1A | Freshman Composition | 3.0 | CSU,UC |
| MATH 71 | Intermediate Algebra | 5.0 | |
| | Total Units | 23.0 | |
| Recommen | nded Electives: | | |
| CHLD 51 | Early Literacy in Child Developm | ent | |
| CHLD 64 | Health, Safety and Nutrition of Y | ′oung (| Children |
| LIT 40 | Children's Literature | | |
| PE 3 | First Aid and CPR | | |
| | | | |
| | | | |

| Electronics and Computer Engineering Technology |
|--|
| Electronics and Computer Technology Department |
| Major S0906 |

This curriculum starts with basic electronic components and circuitry, culminates with course work in electronic systems, and is characterized by advanced coursework in three major areas. These include microprocessors and interfacing, electronic communications, and industrial electronic controls. Students completing the program will have training in all the major areas of electronics and will possess ample skills to make them versatile employees. Nearly all labs have new, state-of-the-art equipment to provide the student with quality hands-on learning experiences.

This program is intended to prepare students for employment in electronic industries or for transfer into electronic and computer engineering technology or industrial technology programs at various universities in the CSU system. Many of the courses directly articulate to courses offered at the CSUs. Typical technician job classifications this program covers include field service technician, field engineer, computer service technician, customer service technician, communications technician, maintenance technician and electronics technician.

Three certificate programs are also available: an 8-10 unit certificate in Electronics Assembly and Fabrication, a oneyear certificate in Electronics Technology, and a two-year certificate with the same title as the A.S. Degree. All students completing an Electronic A.S. Degree program are automatically eligible to receive, without further examination, the N.A.R.T.E. 3rd Class Technician License; and all students completing certificate programs are automatically eligible to receive, without further examination, the N.A.R.T.E. 4th Class Technician License.

3.0 CSU

2.0

4.0

Requirements for the Major Required courses: ELEC 11 Technical Applications in Microcomputers ELEC 12 Computer Simulation and Troubleshooting FLFC 50A Flectronic Circuits (DC)

| | and Iroubleshooting | | |
|----------|-------------------------------|-----|-----|
| ELEC 50A | Electronic Circuits (DC) | 4.0 | CSU |
| ELEC 50B | Electronic Circuits (AC) | 4.0 | CSU |
| ELEC 51 | Electronic Devices | 4.0 | CSU |
| ELEC 53 | Communications Circuits | 4.0 | |
| ELEC 54A | Industrial Electronics | 4.0 | CSU |
| ELEC 54B | Industrial Electronic Systems | 3.0 | CSU |
| | | | |

Microwave Communications

ELEC 55

| ELEC 56 | Disting Flasterniss | 4.0 | ccu |
|-----------|-------------------------------|---------|-----|
| ELEC 30 | Digital Electronics | 4.0 | CSU |
| ELEC 61 | Electronic Assembly | 2.0 | CSU |
| | and Fabrication | | |
| ELEC 74 | Microprocessor Systems | 4.0 | CSU |
| TECH 60 | Customer Relations | 1.0 | |
| | for the Technician | | |
| | Total Units | 43.0 | |
| Recommend | led Electives: | | |
| CISP 11 | Programming in Visual Basic | | |
| EDT 11 | Technical Engineering Drawing | I | |
| ELEC 62 | Advanced Surface Mount Asser | nbly an | d |
| | Rework | | |

ELEC 76 Radio Telephone Communications

PHYS 2AG General Physics

Emergency Medical Services Medical Services Department Major S1210

Students who complete the required courses listed below for the Emergency Medical Technician-Paramedic (EMT-P) Certificate and who also complete the graduation requirements of Mt. San Antonio College will be awarded the Associate of Science Degree in Emergency Medical Services.

This Paramedic Program is accredited by CAAHEP (Committee on Accreditation of Allied Health Education Programs) and approved by the Los Angeles County Department of Health Services as meeting and exceeding the minimum standards as specified in Title 22 of the California Code of Regulations and the federal Department of Transportation national standard curriculum. It is designed to train paramedics to work on ambulances and in the fire service.

Requirements for the Major *Required courses:*

| EMS 1 | Fundamen | itals for Paramedics | 4.0 |
|-------|-------------------------|-------------------------|------|
| EMS 1 | Anatomy a for Parame | and Physiology edics | 2.0 |
| EMS 2 | Emergency for Parame | y Cardiac Care edics | 1.0 |
| EMS 3 | Pharmaco | logy for Paramedics | 2.0 |
| EMS 4 | Cardiology | for Paramedics | 5.0 |
| EMS 5 | Paramedic | Skills Competency | 4.5 |
| EMS 6 | EMS Theor | y for Paramedics | 8.5 |
| EMS 7 | Paramedic | Clinical Internship | 3.5 |
| EMS 8 | Paramedic | Field Externship | 8.5 |
| | Total Uni | ts | 39.0 |

Recommended Electives:

- ADJU 1 The Administration of Justice System
- FIRE 1 Fire Protection Organization
- PSYC 1A Introduction to Psychology

SOC 1 Sociology

The Emergency Medical Services faculty recommend that students complement their studies with selected elective courses chosen from the list above. Students should meet with a professor of Emergency Medical Services to help them determine which electives would best suit their career plans.

Special Information

To remain in the program, students must maintain a grade of "C" (80%) or better in all courses, per state regulations. Before starting clinical rotations, students must pass a criminal background check.

Upon successful completion of the required courses, students are granted a certificate documenting completion of the Paramedic Program. Students are then eligible for licensure by taking and passing both the National Registry Exam and County Paramedic accreditation exam.

Application Requirements and Entrance Procedures

Application Requirements:

In addition to meeting Mt. San Antonio College academic standards for admission, applicants must be in good standing and satisfy the following requirements:

- 1) Be an EMT-I, currently certified in California.
- Submit a letter on official stationery from a recognized EMS agency verifying completion of six (6) months of pre-hospital field experience as an EMT-I (approximately 1,200 hours) within the last two years.
- 3) File a college application and be accepted as a student at Mt. San Antonio College.
- 4) Submit an application for the Paramedic Program to the Technology and Health Division Office (909)594-5611, Ext. 4750. All applications are dated upon receipt in the Technology and Health Division Office. The Paramedic Program begins three times per year, in August, January, and May and runs for 29 weeks.
- 5) Take the AWE (Assessment of Written English, the Mt. SAC Math Placement test, and the Degrees of Reading Power reading test at least ten working days before the state of the pre-course (EMS 1). Placement examinations will be individually assessed tp determine eligibility. The placement test is administered by the Assessment Center, located in

the Student Services Center. If required, arrange with the Center a day and a time to take the examination. The Assessment Center (909)594-5611 Ext. 4265, is open Monday through Friday.

- 6) Successful completion of EMS-1, Fundamentals for Paramedics.
- Forward two official transcripts of all coursework completed (high school, EMT-I, Fire Science, and other than Mt. San Antonio College courses.) One transcript must be sent to the Technology and Health Division Office, the other to the Admissions and Records Office.

NOTE: If the course(s) were taken and/or the degree obtained at Mt. San Antonio College, it is not necessary to request transcripts.

Indicate in the mailing address the program for which transcripts are being sent to the Technology and Health Division Office.

<u>EXAMPLE:</u> Mt. San Antonio College Technology and Health Division Paramedic Program 1100 North Grand Avenue Walnut, CA 91789-1399

8) A physical examination, proof of certain immunizations, and a criminal background check are required of all candidates after acceptance to the program and before entrance into the clinical setting. Forms and information will be provided upon acceptance into the program. In addition, drug testing may be required as part of the physical examination and/or requested by the college or one of its agents.

Entrance Procedure:

In determining eligibility, consideration will be given to the following:

- 1) Completion of all admission requirements
- 2) EMS-related experience
- 3) Scores on the English assessment and math placement tests
- Placement EMS-1, Fundamentals for Paramedics, and scores on college placement exam for English and math All Applicants are required to meet the Essential Functions for Success in the Paramedic Program.

Physical Demands:

- Perform prolonged, extensive, or considerable standing/walking, lifting positioning, pushing, and/or transferring patients
- Possess the ability to perform fine motor movements with hands and fingers

- Possess the ability for extremely heavy effort (lift and carry at least 125 pounds)
- Perform considerable reaching, stooping, bending, kneeling, and crouching

Sensory Demands:

- <u>Color vision</u>: ability to distinguish and identify colors (may be corrected with adaptive devices)
- *Distance vision:* ability to see clearly 20 feet or more
- <u>Depth perception</u>: ability to judge distance and space relationships
- <u>Near vision</u>: ability to see clearly 20 inches or less
- *Hearing*: able to recognize a full range of tones

Working Environment:

- May be exposed to infectious and contagious disease, without prior notification
- Regularly exposed to the risk of blood borne diseases
- Exposed to hazardous agents, body fluids and wastes
- Exposed to odorous chemicals and specimens
- Subject to hazards of flammable, explosive gases
- Subject to burns and cuts
- Contact with patients having different religious, culture, ethnicity, race, sexual orientation, psychological and physical disabilities, and under a wide variety of circumstances
- Handle emergency or crisis situations
- Subject to many interruptions
- Requires decisions/actions related to end of life issues
- Exposed to products containing latex

English Language Skills:

Although proficiency in English is not a criteria for admission into the nursing program, students are encouraged to be able to speak, write and read English to complete classes successfully and to ensure safety for themselves and for others.

Engineering Design Technology Architecture and Engineering Design Department Maior S0913

This curriculum is recommended for those who wish to become an engineering technician, CADD operator/designer or drafter in fields related to engineering, tool design, electronics, manufacturing, structural steel, civil, piping, aerospace, 3-D modeling, illustration, and computer animation. It provides fundamental knowledge of manufacturing processes as they relate to design problems and the techniques required by industry for design, presentation, detail, and assembly working drawings.

This program is intended to prepare students for employment following completion of courses or for retraining and upgrading skills. This program also offers transfer opportunities in related majors. Students desiring a Bachelor's Degree (transfer program) should consult with department faculty and a counselor or advisor to develop an individualized plan of transferable courses and math requirements.

Requirements for the Major Required courses:

| | neguneaco | ui 505. | | |
|-----|-----------|--|------|-----|
| | EDT 11 | Technical Engineering Drawing I | 3.0 | CSU |
| | EDT 12 | Technical Engineering Drawing I | 3.0 | CSU |
| | EDT 14 | Mechanical Design | 3.0 | CSU |
| | | - Geometric Dimensioning and Tolerancing | | |
| | EDT 16 | Basic CAD and Computer | 4.0 | CSU |
| ies | | Applications | | |
| 103 | EDT 18 | Engineering CAD Applications | 4.0 | CSU |
| | EDT 20 | Technical Descriptive Geometry | 3.0 | CSU |
| | EDT 24 | Engineering CAD 3-D Solids | 3.0 | CSU |
| | | and Surfaces | | |
| to | EDT 26 | Civil Engineering Technology and CAD | 3.0 | CSU |
| | EDT 28 | Engineering CAD 3-D | 3.0 | CSU |
| | | Illustration/Animation | | |
| | ELEC 50A | Electronic Circuits (DC) | 4.0 | CSU |
| | ELEC 50B | Electronic Circuits (AC) | 4.0 | CSU |
| | MFG 11 | Manufacturing Processes I | 2.0 | CSU |
| | | Total Units | 39.0 | |
| | Recomment | ded Electives: | | |
| | EDT 89 | Engineering Design Technology Work Experience | | |
| | ENGR 8 | Properties of Materials | | |
| | | | | |

Equipment Technology Agricultural Sciences Department Maior S0118

The courses in equipment technology are designed to enable students to prepare for a career in this essential and diverse profession. This degree is part of our comprehensive Agricultural Sciences program. Our program is unique in that most courses provide hands-on experience and are designed to give the student a combination of practical skills and technical knowledge. Students who intend to transfer should meet with a counselor or advisor to check the lower division requirements in the catalog of the college or university which they will attend and also the semester and year in which courses are offered.

This program is intended to prepare students to become technicians for entry level positions or skills enhancement in the operation, service, maintenance and repair of industrial and agricultural power equipment.

Listed below are the courses needed to satisfy major requirements. It is recommended that students consult with the department chairperson, counselor or advisor to file an educational plan. For additional information, call the Agricultural Sciences Department, ext. 4540 or visit the Mt. SAC Web site at www.mtdac.edu/instruction/sciences/agriculture.

| Requirements for the Major | | | | | |
|----------------------------|-------------------------------------|--------|--------|--|--|
| Required courses: | | | | | |
| AGAG 1 | Food Production, Land Use | | CSU,UC | | |
| | and Politics - A Global Perspection | ve | | | |
| AGAG 59 | Work Experience in Agriculture | 1.0 - | 4.0 | | |
| AGOR 51 | Tractor and Landscape | 3.0 | CSU | | |
| | Equipment Operations | | | | |
| AGOR 52 | Hydraulics | 3.0 | CSU | | |
| AGOR 53 | Small Engine Repair I | 3.0 | CSU | | |
| AGOR 54 | Small Engine Repair II | 3.0 | CSU | | |
| AGOR 55 | Diesel Engine Repair | 3.0 | CSU | | |
| AGOR 56 | Engine Diagnostics | 3.0 | CSU | | |
| AGOR 57 | Power Train Repair | 3.0 | | | |
| AGOR 71 | Landscape Construction | 3.0 | CSU | | |
| | Fundamentals | | | | |
| AGOR 72 | Landscape Hardscape Application | ons3.0 | CSU | | |
| CISB 15 | Microcomputer Applications | 4.0 | CSU,UC | | |
| | Total Units | 35.0 | - 38.0 | | |
| | | | | | |

Escrow Management Business Administration Department Maior S0511

This program is intended to prepare students for employment following graduation. Students wishing a Bachelor's Degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses.

Requirements for the Major Required courses: BUSA 7 Principles of Accounting 5.0 CSU.UC - Financial or BUSA 72 Bookkeeping - Accounting 5.0 BUSM 20 Principles of Business 3.0 CSU,UC Human Relations in Business 3.0 CSU BUSM 60 BUSM 66 3.0 CSU Small Business Management BUSO 25 **Business Communications** 3.0 CSU BUSR 50 Real Estate Principles 3.0 CSU BUSR 51 Legal Aspects of Real Estate 3.0 BUSR 53 **Real Estate Finance** 3.0 BUSR 76 Escrow Procedures I 3.0 BUSR 77 Escrow Procedures II 3.0 CISB 15 4.0 CSU,UC Microcomputer Applications COMP 1 Computer Keyboarding 4.0 CSU **Total Units** 40.0 Recommended Electives: Principles of Accounting - Managerial BUSA 8 BUSL 18 **Business Law** or BUSL 18H Business Law - Honors BUSM 62 Human Resource Management BUSO 5 **Business English** BUSR 52 **Real Estate Practice** or BUSR 52D Real Estate Practice Work Experience Income Tax Aspects of Real Estate Investments BUSR 57 PSYC 1A Introduction to Psychology or

PSYC 1AH Introduction to Psychology - Honors

Family and Consumer Sciences Consumer Science and Design Technologies Maior S1309

This program provides students with the basic skills associated with the field of family and consumer sciences which includes the needs of the home, the family, and its individual members. Students wishing a Bachelor's Degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses.

Requirements for the Major Required courses: CHLD 10 Child Growth and Development 3.0 CSU.UC or

| CHLD 10H | Child Growth and Development - Honors | 3.0 | CSU,UC |
|----------|--|---|---|
| FASH 10 | Clothing Fundamentals | 3.0 | CSU |
| FASH 15 | Fashion Strategies | 3.0 | CSU |
| FASH 17 | Textiles | 3.0 | CSU,UC |
| FCS 41 | Life Management | 3.0 | CSU |
| FCS 80 | Financial Planning | 3.0 | CSU |
| | <u>or</u> | | |
| BUSA 71 | Financial Planning | 3.0 | CSU |
| ID 100 | Fundamentals of Interior Design | 3.0 | CSU |
| NF 20 | Principles of Foods With Lab | 3.0 | CSU |
| | <u>or</u> | | |
| NF 62 | Meal Management | 3.0 | CSU |
| NF 25 | Essentials of Nutrition | 3.0 | CSU,UC |
| | <u>or</u> | | |
| NF 25H | Essentials of Nutrition - Honors | 3.0 | CSU,UC |
| NF 28 | Cultural and Ethnic Foods | 3.0 | CSU,UC |
| | Total Units | 30.0 | |
| Recommen | ded Electives: | | |
| CHLD 1 | Child, Family and Community | | |
| FASH 12 | Advanced Clothing | | |
| ID 105 | Interior Design Studio I | | |
| ID 130 | Applied Color and Design Theory | | |
| | FASH 10 FASH 15 FASH 17 FCS 41 FCS 80 BUSA 71 ID 100 NF 20 NF 62 NF 25 NF 25 NF 25H NF 28 Recomment CHLD 1 FASH 12 ID 105 | -Honors FASH 10 Clothing Fundamentals FASH 15 Fashion Strategies FASH 17 Textiles FGS 41 Life Management FCS 40 Financial Planning 07 BUSA 71 Financial Planning ID 100 Fundamentals of Interior Design NF 20 Principles of Foods With Lab 07 NF 62 Meal Management NF 25 Essentials of Nutrition 07 NF 25 Cultural and Ethnic Foods Total Units Recommented Electives: CHLD 1 Child, Family and Community FASH 12 Advanced Clothing ID 105 Interior Design Studio I | - Honors FASH 10 Clothing Fundamentals 3.0 FASH 15 Fashion Strategies 3.0 FASH 17 Textiles 3.0 FASH 17 Textiles 3.0 FCS 41 Life Management 3.0 FCS 80 Financial Planning 3.0 FCS 80 Financial Planning 3.0 FCS 80 Financial Planning 3.0 D100 Fundamentals of Interior Design 3.0 NF 20 Principles of Foods With Lab 3.0 NF 20 Meal Management 3.0 NF 25 Essentials of Nutrition - Honors 3.0 NF 25 Essentials of Nutrition - Honors 3.0 NF 25H Cultural and Ethnic Foods 3.0 |

Fashion Design Consumer Science and Design Technologies Maior S1320

Exciting employment opportunities are available in both fashion design and costume design. In Southern California, the apparel industry and the entertainment industry support the largest number of employees and contribute significantly to the economy of the region. Expand your creative talents with this challenging major and find a career of your dreams. Students desiring a Bachelor's Degree should consult with a counselor or advisor and the transfer institution.

Requirements for the Major Required courses:

| FASH 8 | Introduction to Fashion | 3.0 | CSU | | | | |
|-------------|--|-------|--------|--|--|--|--|
| FASH 9 | History of Costume and Fashion | 3.0 | CSU | | | | |
| FASH 10 | Clothing Construction I | 3.0 | CSU | | | | |
| FASH 12 | Clothing Construction II | 3.0 | CSU | | | | |
| FASH 15 | Fashion Strategies | 3.0 | CSU | | | | |
| FASH 17 | Textiles | 3.0 | CSU,UC | | | | |
| FASH 20 | Illustration for Fashion and Costume Design | 3.0 | | | | | |
| FASH 21 | Patternmaking I | 3.0 | CSU | | | | |
| FASH 22 | Fashion Design By Draping | 3.0 | | | | | |
| FASH 23 | Patternmaking II | 3.0 | | | | | |
| FASH 30 | Fashion Design and Product Development I | 3.0 | | | | | |
| FASH 31 | Fashion Design and Product Development II | 3.0 | | | | | |
| FASH 32 | Fashion Design and Product Development III | 3.0 | | | | | |
| | Total Units | 39.0 | | | | | |
| Recommend | ded Electives: | | | | | | |
| FASH 26 | Fashion Computer Assisted Desig | jn | | | | | |
| FASH 81 | Work Experience in Fashion | | | | | | |
| FASH 90 | Field Studies | | | | | | |
| FASH 91 | Field Studies - New York | | | | | | |
| FASH 92 | Field Studies - Fashion Capitals | | | | | | |
| FCS 41 | Life Management | | | | | | |
| FASH 90, FA | SH 91, and FASH 92 may be take | n two | times | | | | |
| for credit. | | | | | | | |
| | | | | | | | |

| | | | 1 | | | | | | | | |
|--|--|---|--|--|--|---|---|---|--|---|---|
| Consum Major S1 This progra employme opportunit manufactu Students in (transfer p | n Merchandising er Science and Design Tech 1308 am is intended to prepare studen int in the fashion industry. A vario ties are available in retail mercha uring, fashion, promotion, and sel ntending to pursue a Bachelor's E rogram) should consult with a co discuss transferability of courses. | ts for ety of career ndising, f-employment. Degree punselor or | Fire Tech Major S2 The Fire Sc employme desires to the employ education. Degree (tr | chnology anology Department 2105 ience major has been developed nt education for the undergradu enter the field of fire science. It a yed firefighter an opportunity fo Students intending to pursue a ansfer program) should consult v or advisor to discuss transferabili | ate who also provides r a professional Bachelor's with a | FIRE 61 PE-F 50 PE-F 51 PE-F 52 SPAN 66 | Fire Investigation 1B Physical Skills Preparation for of Justice and Fire Technology <u>or</u> Agility Testing Preparation for of Justice and Fire Technology <u>or</u> Fitness and Conditioning for <i>P</i> Justice, Fire Technology, and Fe Spanish for Fire and Police Per | Administration dministration of prestry | - Adm Fire Tecl Major S The Fire S employme desires to the employ education | cchnology inistrative Communic hnology Department 2107 cience major has been developed ent education for the undergradua enter the field of fire science. It al yyed firefighter an opportunity for . Students intending to pursue a B ransfer program) should consult w | to offer pre- te who iso provides a professional tachelor's |
| Require | ments for the Major | | | ments for the Major | | Fire Te | chnology - Adminis | tration | counselor or advisor to discuss transferability of courses. | | |
| Required o | courses: | | Required of | ourses: | | | nology Department | uation | Require | ements for the Major | |
| FASH 8 | Introduction to Fashion | 3.0 CSU | FIRE 1 | Fire Protection Organization | 3.0 CSU | Major S | | | Required | courses: | |
| FASH 9 | History of Costume and Fashion | 3.0 CSU | FIRE 2 | Fire Prevention Technology | 3.0 CSU | - | | | BUSA 7 | Principles of Accounting | 5.0 CSU,UC |
| FASH 10 | Clothing Construction I | 3.0 CSU | FIRE 3 | Fire Protection Equipment | 3.0 CSU | | cience major has been develope ent education for the undergrad | | | - Financial | |
| FASH 15 | Fashion Strategies | 3.0 CSU | | and Systems | | | enter the field of fire science. It | | CISB 11 | Computer Information Systems | 3.5 CSU,UC |
| FASH 17 | Textiles | 3.0 CSU,UC | FIRE 4 | Building Construction | 3.0 CSU | | yed firefighter an opportunity f | | FIRE 1 | Fire Protection Organization | 3.0 CSU |
| FASH 30 | Fashion Design and Product | 3.0 | | for Fire Protection | | | . Students intending to pursue a | | FIRE 8 | Fire Company Organization | 3.0 CSU |
| | Development I | | FIRE 5 | Fire Behavior and Combustion | 3.0 CSU | | ansfer program) should consult | | | and Management | |
| FASH 62 | Retail Store Management | 3.0 CSU | FIRE 6 | Hazardous Materials/ICS | 3.0 | | or advisor to discuss transferab | | FIRE 20 | Fire Instructor 1A | 2.0 |
| | and Merchandising | | PLUS | | | | ments for the Major | | FIRE 21 | Fire Instructor 1B | 2.0 |
| | <u>or</u> | | Select two | (2) course from: | | Required | | | | Total Units | 18.5 |
| BUSS 50 | Retail Store Management | 3.0 CSU | EMT 90 | Emergency Medical Technician | I 10.0 | BUSA 7 | Principles of Accounting | 5.0 CSU,UC | Recomme | nded Electives: | |
| | and Merchandising | | FIRE 7 | Fire Fighting Tactics and Strate | gy 3.0 CSU | | - Financial | , | FIRE 2 | Fire Prevention Technology | |
| FASH 63 | Advertising and Promotion | 3.0 CSU | FIRE 8 | Fire Company Organization | 3.0 CSU | CISB 11 | Computer Information System | ns 3.5 CSU,UC | FIRE 30 | Fire Management 1 | |
| | <u>or</u> | | | and Management | | CISP 11 | Basic Programming | 4.0 CSU,UC | FIRE 40 | Fire Prevention 1A | |
| BUSS 33 | Advertising and Promotion | 3.0 CSU | FIRE 9 | Fire Hydraulics | 3.0 CSU | FIRE 1 | Fire Protection Organization | 3.0 CSU | FIRE 41 | Fire Prevention 1B | |
| FASH 66 | Visual Merchandising Display | 3.0 CSU | FIRE 10 | Arson and Fire Investigation | 3.0 CSU | FIRE 8 | Fire Company Organization | 3.0 CSU | SPAN 66 | Spanish for Fire and Police Perso | nnel |
| | Total Units | 27.0 | FIRE 11 | Fire Apparatus and Equipment | | | and Management | | | | |
| | nded Electives: | | FIRE 12 | Wildland Fire Control | 4.0 CSU | FIRE 30 | Fire Management 1 | 2.0 | Fire Te | chnology | |
| BUSS 36 | Principles of Marketing | | FIRE 86 | Basic Fire Academy | 12.0 | | Total Units | 20.5 | - Admi | inistrative Law | |
| FASH 25 | Fashion Computer - Assisted Dra | awing | PE-F 53 | Physical Training | 2.5 CSU | Recomme | nded Electives: | | Fire Tecl | hnology Department | |
| FASH 90 | Field Studies | | | for the Basic Fire Academy | | FIRE 2 | Fire Prevention Technology | | Major S | 2108 | |
| FASH 91 | Field Studies - New York | | | Total Units | 23.5 – 40.0 | FIRE 40 | Fire Prevention 1A | | The Fire S | cience major has been developed | to offer pre- |
| FASH 92 | Field Studies - Fashion Capitals | | Recommen | nded Electives: | | FIRE 41 | Fire Prevention 1B | | | ent education for the undergradua | |
| FCS 41 | Life Management | | FIRE 20 | Fire Instructor 1A | | SPAN 66 | Spanish for Fire and Police Per | sonnel | | enter the field of fire science. It al | |
| FCS 91 | Work Experience in Family | | FIRE 21 | Fire Instructor 1B | | | | | the emplo | oyed firefighter an opportunity for | a professional |
| | and Consumer Sciences | | FIRE 30 | Fire Management 1 | | | | | | . Students intending to pursue a B | |
| | ASH 91 and FASH 92 may be take | en two times | FIRE 40 | Fire Prevention 1A | | | | | | ransfer program) should consult w | |
| for credit. | | | FIRE 41 | Fire Prevention 1B | | | | | counselor | or advisor to discuss transferabilit | y of courses. |
| | | | FIRE 50 | Fire Command 1A | | | | | | ements for the Major | |
| | | | FIRE 51 | Fire Command 1B | | | | | Required | | |
| | | | FIRE 60 | Fire Investigation 1A | | | | | BUSA 7 | Principles of Accounting - Financial | 5.0 CSU,UC |
| | | | | | | | | | CISB 11 | Computer Information Systems | 3.5 CSU,UC |
| | | | | | | | | | FIRE 1 | Fire Protection Organization | 3.0 CSU |
| | | | | | | | | | FIRE 2 | Fire Prevention Technology | 3.0 CSU |
| | | | | | | 1 | | | | | |

| | Total Units | 21.5 | Fire Te |
|---------|---|---------|---------|
| FIRE 41 | Fire Prevention 1B | 2.0 | |
| FIRE 40 | Fire Prevention 1A | 2.0 | SPAN 66 |
| FIRE 8 | Fire Company Organization and Management | 3.0 CSU | PE-F 52 |
| | | | |

Fire Technology - Fire Management Fire Technology D Major S2109

The Fire Science majo employment educatio desires to enter the fie the employed firefight education. Students in Degree (transfer prog counselor or advisor t

| Requiren Required co | nents for the Major urses: | | |
|-------------------------|--|------|----|
| FIRE 1 | Fire Protection Organization | 3.0 | CS |
| FIRE 2 | Fire Prevention Technology | 3.0 | CS |
| FIRE 3 | Fire Protection Equipment and Systems | 3.0 | CS |
| FIRE 4 | Building Construction for Fire Protection | 3.0 | CS |
| FIRE 5 | Fire Behavior and Combustion | 3.0 | CS |
| FIRE 6 | Hazardous Materials/ICS | 3.0 | |
| PLUS | | | |
| The followin | ng courses: | | |
| FIRE 7 | Fire Fighting Tactics and Strategy | 3.0 | CS |
| FIRE 8 | Fire Company Organization and Management | 3.0 | CS |
| FIRE 10 | Arson and Fire Investigation | 3.0 | CS |
| FIRE 20 | Fire Instructor 1A | 2.0 | |
| FIRE 21 | Fire Instructor 1B | 2.0 | |
| FIRE 30 | Fire Management 1 | 2.0 | |
| FIRE 50 | Fire Command 1A | 2.0 | |
| | Total Units 3 | 85.0 | |
| Recomment | led Electives: | | |
| EMT 90 | Emergency Medical Technician I | | |
| FIRE 40 | Fire Prevention 1A | | |
| FIRE 41 | Fire Prevention 1B | | |
| FIRE 51 | Fire Command 1B | | |

Fire Investigation 1A

Fire Investigation 1B

Physical Skills Preparation for Law

Agility Testing Preparation for Law Enforcement and Fire Science

Enforcement and Fire Science

FIRE 60

FIRE 61

PE-F 50

PE-F 51

| Department | | | The Fire Sci employmer |
|---|--|---------|---------------------------|
| or has been developed on for the undergradua ield of fire science. It al nter an opportunity for ntending to pursue a B | desires to e the employ education. Degree (tra counselor o | | |
| ram) should consult w to discuss transferabilit | | ourses. | Requirer Required co |
| or the Major | | | FIRE 1 |
| | | | FIRE 2 |
| ection Organization | 3.0 | CSU | FIRE 3 |
| | 5.0 | 0.50 | FINE 3 |

| nmend | ded Electives: | | | PE-F |
|----------|--|-------|-----|------|
| | Total Units | 35.0 | | |
| 50 | Fire Command 1A | 2.0 | | PE-F |
| 30 | Fire Management 1 | 2.0 | | EMT |
| 21 | Fire Instructor 1B | 2.0 | | Reco |
| 20 | Fire Instructor 1A | 2.0 | | |
| 0 | Arson and Fire Investigation | 3.0 | CSU | FIRE |
| , | and Management | 5.0 | 00 | FIRE |
| 2 | Fire Company Organization | 3.0 | | FIRE |
| 7 | Fire Fighting Tactics and Strategy | / 3.0 | CSU | FIRE |
| ollowiı | ng courses: | | | FIRE |
| | | | | FIRE |
| ō | Hazardous Materials/ICS | 3.0 | | FIRE |
| 5 | Fire Behavior and Combustion | 3.0 | CSU | FIRE |
| • | for Fire Protection | 2.0 | | FIRE |
| Ļ | Building Construction | 3.0 | CSU | FIRE |
| 5 | Fire Protection Equipment and Systems | 3.0 | CSU | FIKE |
| <u>'</u> | Fire Prevention Technology | 3.0 | CSU | FIRE |
| | | 2.0 | COU | TINE |

Fire Technology - Fire Prevention Fire Technology Department Major S2110 ience major has been developed to offer prent education for the undergraduate who enter the field of fire science. It also provides yed firefighter an opportunity for a professional Students intending to pursue a Bachelor's ansfer program) should consult with a

Fire Science and Forestry

Fitness and Conditioning for Law Enforcement,

Spanish for Fire and Police Personnel

or advisor to discuss transferability of courses.

ments for the Major

| Required courses: | | | | | | | |
|-------------------|---|--------|----------|--|--|--|--|
| FIRE 1 | Fire Protection Organization | 3.0 | CSU | | | | |
| FIRE 2 | Fire Prevention Technology | 3.0 | CSU | | | | |
| FIRE 3 | Fire Protection Equipment and Systems | 3.0 | CSU | | | | |
| FIRE 4 | Building Construction for Fire Protection | 3.0 | CSU | | | | |
| FIRE 5 | Fire Behavior and Combustion | 3.0 | CSU | | | | |
| FIRE 6 | Hazardous Materials/ICS | 3.0 | | | | | |
| FIRE 10 | Arson and Fire Investigation | 3.0 | CSU | | | | |
| FIRE 40 | Fire Prevention 1A | 2.0 | | | | | |
| FIRE 41 | Fire Prevention 1B | 2.0 | | | | | |
| FIRE 42 | Fire Prevention 1C | 2.0 | | | | | |
| FIRE 43 | Fire Prevention 2a | 2.0 | | | | | |
| FIRE 44 | Fire Prevention 2b | 2.0 | | | | | |
| FIRE 45 | Fire Prevention 2c | 2.0 | | | | | |
| FIRE 68 | Title 19/24 Workshop | 1.0 | | | | | |
| | Total Units | 34.0 | | | | | |
| Recommen | ded Electives: | | | | | | |
| EMT 90 | Emergency Medical Technician | I | | | | | |
| PE-F 50 | Physical Skills Preparation for L Enforcement and Fire Science | aw | | | | | |
| PE-F 51 | Agility Testing Preparation for L Enforcement and Fire Science | .aw | | | | | |
| PE-F 52 | Fitness and Conditioning for La Fire Science and Forestry | w Enfo | rcement, | | | | |
| SPAN 66 | Spanish for Fire and Police Pers | onnel | | | | | |
| | | | | | | | |

Fire Technology - Fire Training Fire Technology Department Major S2111

The Fire Science major has been developed to offer preemployment education for the undergraduate who desires to enter the field of fire science. It also provides the employed firefighter an opportunity for a professional education. Students intending to pursue a Bachelor's Degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses.

Requirements for the Major Required courses:

| FIRE 1 | Fire Protection Organization | 3.0 | CSU | R |
|-----------|-------------------------------------|-------|----------|----|
| FIRE 2 | Fire Prevention Technology | 3.0 | CSU | FI |
| FIRE 3 | Fire Protection Equipment | 3.0 | CSU | FI |
| | and Systems | | | FI |
| FIRE 4 | Building Construction | 3.0 | CSU | |
| | for Fire Protection | | | FI |
| FIRE 5 | Fire Behavior and Combustion | | CSU | |
| FIRE 6 | Hazardous Materials/ICS | 3.0 | | FI |
| FIRE 7 | Fire Fighting Tactics and Strategy | 3.0 | CSU | FI |
| FIRE 20 | Fire Instructor 1A | 2.0 | | FI |
| FIRE 21 | Fire Instructor 1B | 2.0 | | |
| FIRE 22 | Fire Instructor 2a | 2.0 | | FI |
| FIRE 23 | Fire Instructor 2b | 2.0 | | FI |
| FIRE 24 | Fire Instructor 2c | 2.0 | | FI |
| FIRE 30 | Fire Management 1 | 2.0 | | FI |
| | Total Units 3 | 3.0 | | |
| Recommend | led Electives: | | | R |
| EMT 90 | Emergency Medical Technician I | | | E |
| FIRE 8 | Fire Company Organization and N | lanad | gement | FI |
| FIRE 40 | Fire Prevention 1A | - | | FI |
| FIRE 41 | Fire Prevention 1B | | | FI |
| FIRE 50 | Fire Command 1A | | | FI |
| FIRE 51 | Fire Command 1B | | | Р |
| PE-F 50 | Physical Skills Preparation for Law | / | | |
| | Enforcement and Fire Science | | | Р |
| PE-F 51 | Agility Testing Preparation for Lav | N | | |
| | Enforcement and Fire Science | | | Р |
| PE-F 52 | Fitness and Conditioning for Law | Enfo | rcement, | |
| | Fire Science and Forestry | | | S |
| SPAN 66 | Spanish for Fire and Police Person | nel | | |
| | | | | |
| | | | | |

Fire Technology - Private Fire Service Fire Technology Department Major S2112

The Fire Science major has been developed to offer preemployment education for the undergraduate who desires to enter the field of fire science. It also provides the employed firefighter an opportunity for a professional education. Students intending to pursue a Bachelor's Degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses.

Requirements for the Major Required courses:

| | neguneate | , and sear | | |
|-----|--|---|------|----------|
| | FIRE 1 | Fire Protection Organization | 3.0 | CSU |
| | FIRE 2 | Fire Prevention Technology | 3.0 | CSU |
| | FIRE 3 | Fire Protection Equipment and Systems | 3.0 | CSU |
| | FIRE 4 | Building Construction for Fire Protection | 3.0 | CSU |
| | FIRE 5 | Fire Behavior and Combustion | 3.0 | CSU |
| | FIRE 6 | Hazardous Materials/ICS | 3.0 | |
| | FIRE 8 | Fire Company Organization and Management | 3.0 | CSU |
| | FIRE 11 | Fire Apparatus and Equipment | 3.0 | CSU |
| | FIRE 40 | Fire Prevention 1A | 2.0 | |
| | FIRE 41 | Fire Prevention 1B | 2.0 | |
| | FIRE 42 | Fire Prevention 1C | 2.0 | |
| | | | | |
| | | Total Units | 30.0 | |
| | | Total Units ded Electives: | 30.0 | |
| | | | | |
| nt | Recommen | ded Electives: | | |
| nt | Recommen EMT 90 | <i>ded Electives:</i> Emergency Medical Technician I | | |
| nt | Recommen EMT 90 FIRE 10 | ded Electives: Emergency Medical Technician I Arson and Fire Investigation | | |
| nt | Recommen EMT 90 FIRE 10 FIRE 30 | ded Electives: Emergency Medical Technician I Arson and Fire Investigation Fire Management 1 | | |
| nt | Recommen EMT 90 FIRE 10 FIRE 30 FIRE 60 | ded Electives: Emergency Medical Technician I Arson and Fire Investigation Fire Management 1 Fire Investigation 1A | | |
| nt | Recommen EMT 90 FIRE 10 FIRE 30 FIRE 60 FIRE 61 | ded Electives: Emergency Medical Technician I Arson and Fire Investigation Fire Management 1 Fire Investigation 1A Fire Investigation 1B Physical Skills Preparation for La | łW | |
| nt, | Recommen EMT 90 FIRE 10 FIRE 30 FIRE 60 FIRE 61 PE-F 50 | ded Electives: Emergency Medical Technician I Arson and Fire Investigation Fire Management 1 Fire Investigation 1A Fire Investigation 1B Physical Skills Preparation for La Enforcement and Fire Science Agility Testing Preparation for La | aw | rcement, |

General Business

Accounting and Management Department Major S0501

This program is intended to prepare students for employment following graduation. Students wishing a Bachelor's Degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses.

- - ----

Requirements for the Major

Required courses:

| BUSA 7 | Principles of Accounting - Financial | 5.0 | CSU,UC | AS his |
|---------------|---|-----------|--------------|-----------|
| | or | | | by |
| BUSA 72 | Bookkeeping - Accounting | 5.0 | | fo |
| BUSL 18 | Business Law | 3.0 | CSU,UC | fa sit |
| | <u>or</u> | | | gr |
| BUSL 18H | Business Law - Honors | 3.0 | CSU,UC | int |
| BUSM 10 | Principles of Continuous | 3.0 | | R |
| | Quality Improvement | | | Re |
| BUSM 20 | Principles of Business | 3.0 | CSU,UC | AN |
| BUSM 60 | Human Relations in Business | | | |
| BUSM 61 | Business Organization | 3.0 | CSU | A |
| | and Management | | | A |
| BUSM 62 | Human Resource Manageme | | | CH |
| BUSO 5 | Business English | 3.0 | | |
| BUSO 25 | Business Communications | | CSU | |
| BUSS 36 | Principles of Marketing | 3.0 | CSU | C H |
| CISB 15 | Microcomputer Applications | 4.0 | CSU,UC | H1 |
| PLUS | | | | H1 |
| Select six (6 |) units from: | | | |
| BUSA | Business: Accounting | 1.0 - 5.0 | ' | H1 |
| BUSC | Business: Economics | 3.0 | CSU,UC | H1 |
| BUSL | Business: Law | 1.0 - 3.0 | CSU,UC | H1 |
| BUSM | Business: Management | 1.0 - 4.0 | | H1 |
| BUSS | Business: Sales, | 1.0 - 4.0 | CSU | |
| | Merchandising and Marketir | 2 | | H1 |
| CISB | Computer Information | 2.0 - 4.0 | CSU,UC | |
| COMP | Systems: Beginning | 0.5 - 4.0 | <u>(</u> (1) | M |
| CUMP | Computer Applications Total Units | | (30 | |
| | lotal Units | 42.0 | | M |
| | | | | |

Histologic Technician Training Biological Sciences Department Major S1211

This program provides on-campus and on-site technical training in the field of histotechnology, focusing on routine tissue sample preparation, special stains and techniques such as immunohistochemistry, and in situ hybridation. Training on campus will utilize samples routinely prepared in both clinical and research facilities. As part of their formal training, students of istotechnology will work through study guides provided by the American Society of Clinical Pathologists (ASCP) or its certification examination. Partnerships with local acilities will allow for work experience and internship ites, required for certification of histotechnology raduates, and will provide further training for those nterested in research and/or careers in the private sector. Requirements for the Major Required courses: ANAT 10B Introductory Human Physiology 4.0 CSU,UC <u>or</u> ANAT 36 Human Physiology 5.0 CSU,UC ANAT 35 Human Anatomy 5.0 CSU.UC HEM 10 Chemistry for Allied 4.0 CSU.UC Health Maiors or HEM 50 5.0 CSU.UC General Chemistry I Introduction to Histotechnology 1.0 IT 1 HT 2 Scientific Basics for 3.0 Histologic Technicians IT 10 3.0 Histoloav IT 12 **Beginning Histotechniques** 5.0 IT 14 Advanced Histotechniques 4.0 IT 16 Histochemistry/ 4.0 Immunohistochemistry IT 17 Work Experience 1.0 - 4.0In Histotechnology AICR 1 Principles of Microbiology 5.0 CSU,UC or 4.0 CSU,UC AICR 22 Microbiology **Total Units** 41.0 - 44.0

Horse Ranch Management Agricultural Sciences Department Major S0102

The program of courses in Agriculture is designed to enable students to prepare for a career in this essential and diverse profession. The Department offers a comprehensive Agricultural Sciences Program and is unique in that most courses provide hands-on experience designed to give the student a combination of practical skills and technical knowledge. Students who intend to transfer should check the lower division requirements in the catalog of the college or university which they will attend and also the semester and year in which courses are offered.

The following programs list all courses needed to satisfy major requirements. Students may obtain certificates upon completion of required courses listed. It is recommended that all students consult with the department chairperson or faculty advisor to file an educational plan.

These programs are intended to prepare students for employment following graduation. Students desiring a Bachelor's Degree (transfer program) should consult with the department chairperson or counselor or advisor to discuss transferability of courses. The curriculum is flexible in nature to allow for previous experience and specialization in a given area of agriculture and agricultural business.

Requirements for the Major Required courses:

| AGAB 20 | Microcomputer Applications in Agriculture | 3.0 | CSU,UC | |
|---------|---|-----|--------|------|
| AGAG 59 | Work Experience in Agriculture or | 1.0 | | ŀ |
| AGAG 60 | Work Experience in Agriculture | 2.0 | | |
| AGAG 61 | Work Experience in Agriculture | 3.0 | | |
| AGAG 62 | Work Experience in Agriculture | 4.0 | | 1 |
| AGAN 2 | Animal Nutrition | 3.0 | CSU | 5 |
| AGAN 94 | Animal Breeding | 3.0 | | ŀ |
| AGLI 16 | Horse Production | 4.0 | CSU,UC | ŀ |
| AGLI 18 | Horse Ranch Management | 4.0 | CSU | ŀ |
| AGLI 19 | Horse Hoof Care | 2.0 | CSU | |
| AGLI 20 | Horse Behavior and Training | 2.0 | | 1 |
| AGLI 96 | Animal Sanitation and Disease Control | 3.0 | CSU | , |
| AGLI 97 | Artificial Insemination of Livestock | 2.0 | | ł |
| | | | | 1 |

PLUS

| | Select six (6 | 5) units from: | | |
|---|---------------|-------------------------------|---------|--------|
| | AGHE 84A | Applied Animal Health Procedu | ires1.0 | |
| | AGOR 53 | Small Engine Repair I | 3.0 | CSU |
| 2 | AGOR 71 | Landscape Construction | 3.0 | CSU |
| 2 | Fundament | als | | |
| | BUSM 20 | Principles of Business | 3.0 | CSU,UC |
| | BUSM 66 | Small Business Management | 3.0 | CSU |
| | | Total Units | 33.0 | - 36.0 |
| | | | | |

Hospitality and Restaurant Management

Consumer Science and Design Technologies Major S1307

This program provides students with an excellent background for a career in the hospitality and restaurant management industry. Students will have the education necessary for many entry-level positions. Students may wish to pursue a Certificate in Hospitality Management, Restaurant Management, Food Services, or Catering. This program is designed to articulate with the Collins School of Hospitality Management at Cal Poly Pomona, as well as other universities. Students wishing to transfer should consult with Hospitality and Restaurant Management faculty or counselor or advisor to discuss transfer options.

Requirements for the Major *Required courses:*

| | HRM 51 | Introduction to Hospitality | 3.0 | CSU |
|----|-------------|---|---------|--------|
| | HRM 52 | Food Safety and Sanitation | 1.5 | CSU |
| UC | HRM 53 | Dining Room Service Managem | ent3.0 | CSU |
| | HRM 54 | Commercial Food Preparation | 3.0 | CSU |
| | HRM 56 | Management of Hospitality Personnel and Operations | 3.0 | CSU |
| | HRM 57 | Restaurant Cost Control | 3.0 | CSU |
| | HRM 64 | Hospitality Financial Accounting | j I 3.0 | CSU |
| | HRM 66 | Hospitality Law | 3.0 | CSU |
| | HRM 70 | Introduction to Lodging | 3.0 | CSU |
| | PLUS | | | |
| | Select thre | ee (3) units from: | | |
| | HRM 61 | Menu Planning | 3.0 | CSU |
| UC | HRM 62 | Catering | 3.0 | CSU |
| | HRM 93 | Work Experience | 3.0 | CSU |
| | | in Restaurant/Hospitality | | |
| | NF 20 | Principles of Foods With Lab | 3.0 | CSU |
| | | Total Units | 28.5 | |
| | Recomme | nded Elective: | | |
| | HRM 91 | Work Experience in Restaurant | /Hospi | tality |
| | | | | |

Human Resource Management Accounting and Management Department Maior S0530

The Human Resource Management Degree is intended to prepare students to enter the business world in the dynamic environment of human resources. Students become familiar with various approaches to business organization and the strategic nature of human resource management. Studies in human resource law, compensation systems, training, and development will provide the student a solid foundation from which to build a career in human resource management. Transfer students will gain a strong human resource management business elective base initiating further study in a variety of fields. Students active in the work arena will acquire new skills that are highly desirable in a fast-paced work force.

Requirements for the Major Required courses:

| neguneato | 415651 | | | 1 11) ' |
|-----------|---|------|--------|---------|
| ANTH 22 | General Cultural Anthropology | 3.0 | CSU,UC | ID ' |
| BUSA 70 | Payroll and Tax Accounting | 3.0 | | |
| BUSL 19 | Advanced Business Law | 3.0 | CSU,UC | |
| BUSM 20 | Principles of Business | 3.0 | CSU,UC | ID 1 |
| BUSM 60 | Human Relations in Business | 3.0 | CSU | ישו |
| BUSM 61 | Business Organization and Management | 3.0 | CSU | ID 1 |
| BUSM 62 | Human Resource Management | 3.0 | | |
| BUSO 25 | Business Communications | 3.0 | CSU | ID2 |
| CISB 15 | Microcomputer Applications | 4.0 | CSU,UC | ID2 |
| | Total Units | 28.0 | | |
| | | | | |

Interior Design

Consumer Science and Design Technologies Major S1301

The program is available as a Certificate (Interiors Merchandising), as an A.S. Degree Interior Design Assistant), and/or when combined with a Bachelor's Degree gualifies student for Professional Designation in Interior Design (Professional Interior Designer) (see below). Students desiring a Bachelor's Degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses.

The Interior Design program works within a Regional Interior Design Program of nearby community colleges. Many of the required courses may also be offered at the following community colleges and will meet the

requirements of the Mt.SAC program: Fullerton, Long Beach City, Orange Coast, and Saddleback. Regional course numbers all have an ID (Interior Design) prefix. Some Mt. San Antonio College courses are offered by other departments and are identified by Mt. San Antonio College prefixes and numbers. These courses have the regional ID course number in parenthesis following their course title.

Requirements for the Major Required courses

| Required courses: | | | | |
|-------------------|--|------|--------|--|
| ARCH 11 | Architectural Drawing | 3.0 | CSU,UC | |
| ARCH 13 | Architectural Illustration | 3.0 | CSU,UC | |
| ARCH 15 | Architectural Working | 3.0 | CSU | |
| | Drawings - I | | | |
| ARCH 16 | Basic CAD | 4.0 | CSU,UC | |
| | and Computer Application | | | |
| BUSS 35 | Professional Selling | 3.0 | CSU | |
| ID 100 | Fundamentals of Interior Design | 3.0 | CSU | |
| ID 105 | Interior Design Studio I | 2.0 | CSU | |
| ID 120 | Interior Design Careers | 2.0 | CSU | |
| ID 130 | Applied Color and Design Theory | | | |
| ID 150 | Interior Materials and Products | 4.0 | | |
| ID 170 | Space Planning | 3.0 | | |
| ID 180 | History of Interior Architecture & Furnishings I | 3.0 | CSU | |
| ID 190 | History of Interior Architecture & Furnishings II | 3.0 | CSU | |
| ID 210 | Fundamentals of Lighting | 3.0 | | |
| ID 215 | Interior Design Studio II | 2.0 | CSU | |
| ID 230 | Business and Professional Practice | 3.0 | | |
| ID 240A | Interior Design Internship Seminar | 1.0 | | |
| | and | | | |
| ID 240B | Interior Design Internship | 1.0 | | |
| | | 50.0 | | |
| Recommen | ded Electives: | | | |
| ARCH 23 | Architectural Presentations | | | |
| ARTD 15A | Drawing: Beginning | | | |
| BUSA 72 | Bookkeeping - Accounting | | | |
| FCS 41 | Life Management | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Interior Design

- Kitchen And Bath Design

Consumer Science and Design Technologies Maior S1302

This program provides for immediate opportunity to seek employment in the area of kitchen and bath design. The program is available as an Associate of Science Degree or a Certificate. Both the major and certificate are endorsed by the National Kitchen and Bath Association. Students completing all courses for this program will earn four (4) NKBA credits toward eligibility for professional certification as a Certified Kitchen Designer or Certified Bath Designer, Please see a professor of Interior Design or contact the NKBA for professional certification eligibility requirements beyond this program.

Requirements for the Major Reauired courses:

| ARCH 11 | Architectural Drawing | 3.0 | CSU,UC |
|---------|--|------|------------|
| ARCH 15 | Architectural Working | 3.0 | CSU |
| | Drawings - I | | |
| ARCH 16 | Basic CAD | 4.0 | CSU,UC |
| ID 100 | and Computer Application | 2.0 | <i>ccu</i> |
| ID 100 | Fundamentals of Interior Design | 3.0 | CSU |
| ID 105 | Interior Design Studio I | 2.0 | CSU |
| ID 130 | Applied Color and Design Theory | | CSU |
| ID 150 | Interior Materials and Products | 4.0 | CSU |
| ID 170 | Space Planning | 3.0 | CSU |
| ID 180 | History of Interior Architecture & Furnishings I | 3.0 | CSU |
| ID 190 | History of Interior Architecture & Furnishings II | 3.0 | CSU |
| ID 210 | Fundamentals of Lighting | 3.0 | |
| ID 215 | Interior Design Studio II | 2.0 | CSU |
| ID 230 | Business and Professional Practice | 3.0 | |
| ID 240A | Interior Design Internship Seminar | 1.0 | |
| ID 240B | Interior Design Internship | 1.0 | |
| ID 240C | Interior Design/Kitchen & Bath Internship | 2.0 | |
| ID 250 | Codes and Specifications for Interior Design | 2.0 | CSU |
| ID 265 | Interior Design Studio III - Kitchens | 2.0 | |
| ID 275 | Interior Design Studio IV - Bath Design | 2.0 | CSU |
| INSP 70 | Elements of Construction | 3.0 | CSU |
| INSP 71 | Construction Estimating | 3.0 | CSU |
| | - | 56.0 | |
| | | | |

Recommended Electives:

| | ARCH 13 | Architectural Illustration |
|---|---------|---|
| | ARCHIS | Architectural mustration |
| | ARCH 23 | Architectural Presentations |
| | BUSA 72 | Bookkeeping - Accounting |
| | BUSM 60 | Human Relations in Business |
| k | BUSM 66 | Small Business Management |
| | BUSS 35 | Professional Selling |
| r | BUSS 50 | Retail Store Management and Merchandising |

International Business

Accounting and Management Department Major S0507

This program is intended to prepare students for employment following graduation. Students wishing a Bachelor's Degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses.

Requirements for the Major Reauired courses: RUSE 20 International Rusiness Law

| BOSE 20 | International Business Law | 3.0 | |
|------------|--|-------|--------|
| BUSM 20 | Principles of Business | 3.0 | CSU,UC |
| BUSM 50 | World Culture: | 3.0 | CSU |
| | A Business Perspective | | |
| | <u>or</u> | | |
| ANTH 22 | General Cultural Anthropology | 3.0 | CSU,UC |
| BUSM 51 | Principles of International Business | 3.0 | CSU |
| BUSM 52 | Principles of Exporting and Importing | 3.0 | CSU |
| BUSM 61 | Business Organization and Management | 3.0 | CSU |
| BUSM 66 | Small Business Management | 3.0 | CSU |
| BUSS 36 | Principles of Marketing | 3.0 | CSU |
| PLUS | | | |
| Select one | (1) course from: | | |
| BUSS 70 | International Marketing Concept | s 3.0 | |
| CHIN 1 | Beginning Chinese | 4.0 | CSU,UC |
| FRCH 1 | Elementary French | 4.0 | CSU,UC |
| GERM 1 | Elementary German | 4.0 | CSU,UC |
| ITAL 1 | Elementary Italian | 4.0 | CSU,UC |
| JAPN 1 | Elementary Japanese | 4.0 | CSU,UC |
| SPAN 1 | Elementary Spanish | 4.0 | CSU,UC |
| | | | |

Total Units

Work Experience in Business

Special Issues in Business

Special Issues in Marketing

Recommended Electives:

BUSM 81

BUSM 85

BUSS 85

Ю UC PROGRAMS LEADING AN ASSOCIATES DEGREE UC

3 0

27.0 - 28.0

Law Enforcement Public Services Department Major S2102

This program is intended to prepare students for employment following graduation. Students desiring a Bachelor's Degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses.

Requirements for the Major Required courses:

| neguneu co | uises. | | |
|------------|--|-----|-------|
| ADJU 1 | The Administration of Justice System | 3.0 | CSU,U |
| ADJU 2 | Principles and Procedures of the Justice System | 3.0 | CSU |
| ADJU 3 | Concepts of Criminal Law | 3.0 | CSU,U |
| ADJU 4 | Legal Aspects of Evidence | 3.0 | CSU |
| ADJU 5 | Community Relations | 3.0 | CSU,U |
| ADJU 68 | Administration of Justice Report Writing | 3.0 | |

PLUS Select four (4) courses from:

| | () | | |
|---------|--|--------|----------|
| ADJU 6 | Concepts of Enforcement Servic | es 3.0 | |
| ADJU 13 | Concepts of Traffic Services | 3.0 | |
| ADJU 20 | Principles of Investigation | 3.0 | CSU |
| ADJU 38 | Narcotics Investigation | 3.0 | |
| ADJU 59 | Gangs in the Community/Corrections | 3.0 | CSU |
| ADJU 74 | Vice Control | 3.0 | |
| CORS 30 | Ethnic Relations in Corrections | 3.0 | |
| CORS 40 | Crime and Delinquency | 3.0 | |
| CORS 45 | The Violent Offender | 3.0 | |
| | Total Units | 30.0 | |
| Recomme | nded Electives: | | |
| PE-F 50 | Physical Skills Preparation for La Enforcement and Fire Science | aw | |
| PE-F 51 | Agility Testing Preparation for L Enforcement and Fire Science | aw | |
| PE-F 52 | Fitness and Conditioning for La Fire Science and Forestry | w Enfo | rcement, |
| SPAN 66 | Spanish for Fire and Police Perso | onnel | |

Nursing Department Major S1201

The Mt. San Antonio College Nursing Program, approved and accredited by the California Board of Registered Nursing, is a two-year program designed to prepare men and women to give direct nursing care to clients in

various practice settings. The program consists of course work in nursing, science, general education and clinical nursing practice at local hospitals and health agencies. Graduates of the program receive an Associate of Science Degree in Nursing and are eligible to take the NCLEX-RN examination leading to licensure as a Registered Nurse.

The Licensed Vocational Nurse is provided career mobility in the Nursing Program. The Licensed Vocational Nurse may choose between earning an Associate of Science Degree in Nursing or completing the LVN 30-Unit Option track which leads to a certificate, not a degree.

PREREQUSITE COURSES 1. Human Anatomy, including a laboratory component, a minimum of four semester units. 2. Human Physiology, including a laboratory component, a minimum of four semester units. 3. Microbiology, including a laboratory component, a minimum of four semester units. 4. English 1A (Writing Composition) minimum of three (3) semester units with a minimum grade of C. 5. PSYC 1A Introduction to Psychology. 6. CHLD 10 Child Growth and Development or PSYC 14 Developmental Psychology

Non-course requirements: 1. An overall grade point average of 2.5 for the Human Anatomy, grade Human Physiology, and Microbiology prerequisite courses with no grade less than a "C" for each course and no more than one repetition of any one of these courses. 2. A cumulative grade point average (GPA) of 2.5 for all college coursework completed. 3. Eligibility for Math 51 4. High school graduation or GED or academic degree from an accredited college/university in the United States. 5. Possess a California Licensed Vocational Nurse license, 6, A physical examination, including specific immunizations is required of all candidates prior to the beginning of nursing classes. 7. Current Level C-Provider CPR certification 8. Criminal background check 9. Nursing 70 Role Transition must be completed with a credit grade prior to entrance into the program. (NURS 70, Role Transition - Due to the clinical component of NURS 70. applicants must submit their names to the Nursing Office for approval prior to enrollment in this course. Applicants must have completed all prerequisite courses prior to taking NURS 70. Applicants must provide proof of current Vocational Nurse License, physical, CPR card, Background Check (passed), and drug testing prior to the start of class.)

Requirements for Nursing *Required courses:*

| NURS 4 | Maternity Nursing | 3.0 | CSU |
|--------|---------------------|-----|-----|
| NURS 5 | Psychiatric Nursing | 3.0 | CSU |
| NURS 6 | Pediatric Nursing | 3.0 | CSU |

| NURS 7 | Medical-Surgical Nursing: | | CSU |
|----------|--|---------------|------------|
| | Nutrition/Elimination/Surgical A | | |
| NURS 8 | Medical-Surgical Nursing: Circulation and Oxygenation | 5.0 | CSU |
| NURS 9 | | 1.0 | <i>ccu</i> |
| | Leadership in Nursing | 1.0 | CSU |
| NURS 10 | Medical-Surgical Nursing: Integration/Regulation | 4.0 | CSU |
| NURS 11 | Preceptorship in Nursing | 2.0 | CSU |
| | Total Units | 28.0 | |
| Requirer | nents for the Major | | |
| ANAT 35 | Human Anatomy | 5.0 | CSU, UC |
| | <u>and</u> | | |
| NAT 36 | Human Physiology | 5.0 | CSU, UC |
| | <u>or</u> | | |
| ANAT 10A | Introductory Human Anatomy | 4.0 | CSU, UC |
| | <u>and</u> | | |
| ANAT 10B | Introductory Human Physiology | 4.0 | CSU, UC |
| MICR 1 | Principles of Microbiology | 5.0 | CSU, UC |
| | <u>or</u> | | |
| MICR 22 | Microbiology | 4.0 | CSU, UC |
| ENGL 1A | Freshman Composition | 3.0 | CSU, UC |
| CHLD 10 | Child Growth and Development | 3.0 | CSU, UC |
| | <u>or</u> | | |
| PSYC 14 | Developmental Psychology | 3.0 | CSU, UC |
| PSYC 1A | Introduction to Psychology | 3.0 | CSU, UC |
| SPCH 1A | Public Speaking | 3.0 | CSU, UC |
| | Total Units | 24.0 · | - 27.0 |
| | | | |

NOTE: Applicants planning to continue their education and enter a baccalaureate program in nursing will need to complete ANAT 35 and ANAT 36 instead of ANAT 10A and ANAT 10B and MICR 1 instead of MICR 22.

Requirements for the Associate Degree

Students must develop an education plan with a counselor or educational advisor to complete college academic requirements for the AS degree. Contact Counseling and Advising Services to schedule an appointment.

Selection Process

Beginning Fall 2006, students applying for admission to the Nursing Program will be required to see either a counselor or educational advisor to verify their eligibility to enter the Nursing program.

Procedure:

Students must complete all course prerequisites prior to requesting an appointment certifying readiness to enter into the Nursing program. Once eligibility has been established, students will enter on a first come first served basis.

The eligibility appointment:

- a) Once a student has completed all course prerequisites, the student will then apply to the Nursing Department on an appointment basis.
- b) Students who have completed coursework at other colleges must bring the following information to their eligibility appointment:
 - Official transcripts of all college work completed at all colleges;
 - If the prerequisite courses were completed at another college, a course description and a copy of the coursese syllabus;
 - Students completing college coursework outside of the United will need to have their transcripts evaluated by an approved international transcript evaluation agency and must bring the final evaluation to their appointment (students may be able to obtain a list of agencies from the Admissions Office).
 - Due to specific deadlines for International Student applications, please inform the Counselor/Educational Advisor that this applies to you.
- c) All students will need to bring official proof of high school graduation, GED, or college graduation from an accredited institution in the United States.

APPOINTMENTS FOR ELIGIBILTY VERIFICATION WILL ONLY BE MADE DURING THE FOLLOWING MONTHS:

- September 1 October 31
- March 1 April 30
- Students should also be aware that once they have been admitted to the Nursing program and before beginning the clinical portion of the program, they will need to be able to pass both a criminal background check, including a screening by the Office of Inspector General for welfare or Social Security fraud, as well as testing negative for drug use.

ALL APPLICANTS ARE REQUIRED TO MEET THE ESSENTIAL FUNCTIONS FOR SUCCESS IN THE NURSING PROGRAM.

Physical Demands:

 Perform prolonged, extensive, or considerable standing/walking, lifting positioning, pushing, and/or transferring patients

Marketing Management

Requirements for the Major

Business Administration Department

This program is intended to prepare students for

Principles of Accounting

Principles of Business

Business Organization

Business Communications

and Management

Professional Selling

employment following graduation. Students wishing a

Bachelor's Degree (transfer program) should consult with

a counselor or advisor to discuss transferability of courses.

5.0 CSU,UC

3.0 CSU,UC

3.0 CSU

3.0 CSU

3.0 (511

5.0

- Possess the ability to perform fine motor movements with hands and fingers
- Possess the ability for extremely heavy effort (lift/carry 50 lbs.or more
- Perform considerable reaching, stooping, bending. kneeling, and crouching.

Sensory Demands:

- Color vision: ability to distinguish and identify colors (may be corrected with adaptive devices).
- Distance vision: ability to see clearly 20 feet or more
- *Depth perception:* ability to judge distance and space relationships
- *Near vision:* ability to see clearly 20 inches or less
- *Hearing:* able to recognize a full range of tones

Working Environment:

- May be exposed to infectious and contagious disease, without prior notification
- Regularly exposed to the risk of blood borne diseases
- Exposed to hazardous agents, body fluids and wastes
- Exposed to odorous chemicals and specimens
- Subject to hazards of flammable, explosive gases
- Subject to burns and cuts
- Contact with patients having different religious, culture, ethnicity, rac sexual orientation, psychological and physical disabilities, and under a wide variety of AGAN 1 circumstances
- Handle emergency or crisis situations
- Subject to many interruptions
- AGLI 16 Requires decisions/actions related to end of life issues AGLI 17
- Exposed to products containing latex

English Language Skills:

Although proficiency in English is not a criteria for admission into the nursing program, students are encouraged to be able to speak, write and read English to complete classes successfully and to ensure safety for themselves and others.

Livestock Management **Agricultural Sciences Department** Major S0103

The program of courses in Agriculture is designed to enable students to prepare for a career in this essential and diverse profession. The Department offers a

comprehensive Agricultural Sciences Program and is unique in that most courses provide hands-on experience designed to give the student a combination of practical skills and technical knowledge. Students who intend to transfer should check the lower division requirements in the catalog of the college or university which they will attend and also the semester and year in which courses are offered.

The following programs list all courses needed to satisfy maior requirements. Students may obtain certificates upon completion of required courses listed. It is recommended that all students consult with the department chairperson, faculty advisor, or counselor to file an educational plan.

These programs are intended to prepare students for employment following graduation. Students desiring a Bachelor's Degree (transfer program) should consult with the department chairperson or faculty advisor to discuss transferability of courses. The curriculum is flexible in nature to allow for previous experience and specialization in a given area of agriculture and agricultural business.

Requirements for the Maior **Required courses:** AGAB 20 Microcomputer Applications 3.0 CSU,UC in Agriculture AGAG 1 Food Production, Land Use 3.0 CSU.UC and Politics - A Global Perspective AGAG 59 Work Experience in Agriculture 1.0 - 4.0AGAG 91 Agricultural Calculations 3.0 Animal Science AGAN 2 Animal Nutrition AGAN 94 Animal Breeding 3.0 AGLI 14

MF MF 3.0 CSU,UC 3.0 CSU MF MF Swine Production 3.0 CSU MF Horse Production 4.0 CSU,UC MF Sheep Production 3.0 CSU MF 3.0 CSU **Beef Production** Livestock Judging and Selection 2.0 CSU,UC MF Animal Sanitation 3.0 CSU and Disease Control MF

PLUS

MFG 25

MFG 27

WELD 40

Select two (2) course from:

| Select six (6 | 5) units from: | | |
|---------------|--|------|--------|
| AGOR 53 | Small Engine Repair I | 3.0 | CSU |
| AGOR 71 | Landscape Construction Fundamentals | 3.0 | CSU |
| BUSM 20 | Principles of Business | 3.0 | CSU,UC |
| BUSM 66 | Small Business Management | 3.0 | CSU |
| BUSS 35 | Professional Selling | 3.0 | CSU |
| BUSS 36 | Principles of Marketing | 3.0 | CSU |
| | Total Units | 43.0 | - 46.0 |

AGLI 30

AGLI 34

AGLI 96

PLUS

Manufacturing Technology Aircraft Maintenance Tech & Manufacturing Dept. Major S0918

This curriculum is designed to prepare the student for entrance into the manufacturing field in one of the machining occupations, such as machinist (manual, N/C, and CAD/CAM), or machinist apprentice.

Graduates may enter the manufacturing field in areas dealing with production, research and development, tool and die construction, mold making, or computerized manufacturing. Laboratory practice utilizes industrial types of equipment and precision measuring instruments to provide training in the various machining occupations. Setup and tooling procedures and part verification upon completion of the metal removing process are covered. Instruction on all types of lathes, mills, grinders, and specialized equipment such as EDM and CNC is included. Supplementary instruction is also provided in bench work, layout, inspection process, blueprint reading, metal composition, heat treatment, assembly procedures, jig and fixture design, and construction.

Requirements for the Major Reauired courses: MFG 11 Manufacturing Processes I **MFG 12** Manufacturing Processes II **MFG 15** AutoCAD 2D

| FG 17 | 3-D CAD - Mechanical Modeling | 2.0 | |
|--------|---|-----|-----------------|
| FG 19 | Parametric Solid Modeling for Manufacturing | 2.0 | |
| FG 38 | MasterCAM I | 2.0 | CSU |
| FG 38B | Advanced MasterCAM | 2.0 | CSU |
| FG 39 | SurfCAM I | 2.0 | CSU |
| FG 39B | SurfCAM II | 2.0 | CSU |
| FG 58 | Blueprint Reading for Manufacturing | 2.0 | |
| FG 70 | Technical Mathematics - Manufacturing Applications | 2.0 | CSU |
| FG 85 | Manual CNC (Computerized Numerical Contro | | CSU erations |

Advanced Parametric Solid

Autodesk Inventor

Total Units

Introduction to Welding

Modeling for Manufacturing

- Financial or BUSA 72 Bookkeeping - Accounting

BUSM 20

BUSM 61

BUS0 25

RUSS 35

2.0 CSU

2.0 CSU

2.0

2.0

2.0

28.0

2.0 CSU

BUSA 7

Required courses:

Major S0510

| DD22222 | Professional Senting | 5.0 | C30 |
|--------------|--|-------|--------|
| BUSS 36 | Principles of Marketing | 3.0 | CSU |
| BUSS 70 | International Marketing Concept | s 3.0 | |
| BUSS 85 | Special Issues in Marketing | 2.0 | |
| CISB 15 | Microcomputer Applications | 4.0 | CSU,UC |
| PLUS | | | |
| Select one (| 1) course from: | | |
| BUSC 1A | Principles of Economics - Macroeconomics | 3.0 | CSU,UC |
| | <u>or</u> | | |
| BUSC 1AH | Principles of Economics - Macroeconomics - Honors | 3.0 | CSU,UC |
| BUSC 1B | Principles of Economics - Microeconomics | 3.0 | CSU,UC |
| | <u>or</u> | | |
| BUSC 1BH | Principles of Economics - Microeconomics - Honors | 3.0 | CSU,UC |
| BUSC 17 | Applied Business Statistics | 3.0 | CSU,UC |
| BUSM 60 | Human Relations in Business | 3.0 | CSU |
| BUSO 5 | Business English | 3.0 | |
| | Total Units | 32.0 | |
| | | | |
| | | | |

Mental Health Technology - Psychiatric Technician Psychiatric Technician Department Major S1208

Completion of coursework leads to an Associate of Science Degree. The Psychiatric Technology Program will prepare students to take the California State Licensure Examination for Psychiatric Technicians.

Requirements for the Major *Required courses:*

| neguneau | , and sear | | |
|---------------------|--|------------|--------|
| MENT 40 | Introduction to Interviewing and Counseling | 3.0 | |
| | <u>or</u> | | |
| PSYC 40 | Introduction to Interviewing and Counseling | 3.0 | |
| MENT 56 | Medical - Surgical Nursing for Psychiatric Technicians | 9.0 | |
| MENT 56L | Clinical Experience | 4.0 | |
| MENT 58D | Advanced Medical - Surgical Nursing and Pharmacology for | 4.0 PT | |
| MENT 58L | Advanced Medical - Surgical | 1.5 | |
| MENT SOL | Nursing for Psychiatric Technicia | | nical |
| MENT 70 | Introduction to Psychiatric Technology | 1.5 | |
| MENT 70L | Introduction to Psychiatric Technology Clinical Technicians | 2.0 | |
| MENT 72 | Nursing Care of the Developmentally Disabled Perso | 7.0 on | |
| MENT 72L | Nursing Care of the | 5.0 | |
| | Developmentally Disabled Perso | on - Cli | nical |
| MENT 73L | Psychiatric Nursing for Psychiatric Technicians Clinic | 5.0 cal | |
| MENT 73T | Psychiatric Nursing for Psychiatric Technicians | 6.0 | |
| MENT 82 | Work Experience in Mental Health Technology | 2.0 | |
| PSYC 1A | Introduction to Psychology | 3.0 | CSU,UC |
| | Total Units | 53.0 | |
| | | 55.0 | |
| Special Information | | | |

Additional general education courses needed for completion of the Associate in Science Degree requirements are listed in the Mt. San Antonio College Catalog, but are not required to qualify the student for the California State Board Examination. To remain in the program, students must maintain a "C" or better grade in all courses.

The student will qualify to take the California State Board Examination upon completion of all the above courses, except MENT 82.

Entrance Requirements

In addition to meeting Mt. San Antonio College's academic standards for admission, applicants must be in good standing and satisfy the following requirements:

- a) Be a high school graduate or equivalent. (All students who have taken coursework outside of the United States must have their transcript evaluated. Foreign transcripts will not be accepted without the evaluation.)
- b) Be 18 years of age.
- c) File a college application and be accepted as a student at Mt. San Antonio College.
- d) Submit an application for the Mental Health/Psychiatric Technician Program to the Technology and Health Division Office (909) 594-5611, Ext. 4750. All applications are dated upon receipt in the Technology and Health Division Office. A program begins each fall and spring semester.
- e) Take the required English Placement Test (AWE). Eligibility for ENGL 68 is advised.

If you have already taken a college placement exam within the past two years at another school, arrange to have your test scores forwarded to the Technology and Health Division Office. (If you were tested at Mt. San Antonio College, the office will obtain the test scores as long as an "Application for Admission" is on file with the Admissions and Records Office.)

Testing is administered by the Assessment Center, located in the Student Services Center. Arrangements should be made with them to schedule a day and time to take the English Placement Test, if required. The Assessment Center is open Monday through Friday. You may contact them at (909) 594-5611. Ext. 4265.

f) Forward two official transcripts of all coursework completed (high school, nursing school, and other than Mt. San Antonio College courses.) One transcript must be sent to the Technology and Health Division Office and the other to the Admissions and Records Office. g) For students who possess a college degree, the English Placement Test is not required. However, it will be necessary for a student to obtain two official copies of the college transcript showing the degree issued. One transcript must be sent to the Technology and Health Division Office and the other to the Admissions and Records Office.

NOTE: Concerning Entrance Requirements 'e' and 'f', if the course(s) were taken and/or the degree obtained at Mt. San Antonio College, it is not necessary to request transcripts.

Indicate in the mailing address the program for which your transcript is being sent to the Technology and Health Division Office.

<u>EXAMPLE:</u> Mt. San Antonio College Technology and Health Division Psychiatric Technician Program 1100 North Grand Avenue Walnut, CA 91789-1399

- h) A physical examination, including specific immunizations, and consent/ disclaimer for Hepatitis A/B vaccine is required of all candidates prior to beginning classes. Students must provide proof that he/she does not have Tuberculosis. These requirements are in accordance with the healthcare agency policy that insures that students are in good health and free from communicable disease and able to perform their training functions. Drug testing may also be required as part of this physical examination. Proof of high school graduation and malpractice insurance are required of all candidates upon acceptance.
- i) Certain convictions may prevent a candidate from being licensed as a Psychiatric Technician.
- j) All students may be required to pass a background check prior to entering the clinical education phase.

Selection Procedure

In determining eligibility of an applicant, consideration will be given to satisfactory scores on the English Placement Test.

The College will make every effort to notify the applicant of acceptance by mail no less than two months prior to the beginning of a program. All Applicants are required to meet the Essential Functions for Success in the Mental Health Technology - Psychiatric Technician Program.

ALL APPLICANTS ARE REQUIRED TO MEET THE ESSENTIAL FUNCTIONS FOR SUCCESS IN THE MENTAL HEALTH TECHNOLOGY - PSYCHIATRIC TECHNICIAN PROGRAM.

Physical Demands:

- Perform prolonged, extensive, or considerable standing/walking, lifting positioning, pushing, and/or transferring patients
- Possess the ability to perform fine motor movements with hands and fingers
- Possess the ability for extremely heavy effort (lift and carry at least 125pounds)
- Perform considerable reaching, stooping, bending, kneeling, and crouching

Sensory Demands:

- <u>Color vision</u>: ability to distinguish and identify colors (may be corrected with adaptive devices)
- Distance vision: ability to see clearly 20 feet or more
- <u>Depth perception</u>: ability to judge distance and space relationships
- *Near vision:* ability to see clearly 20 inches or less
- Hearing: able to recognize a full range of tones

Working Environment:

- May be exposed to infectious and contagious disease, without prior notification
- Regularly exposed to the risk of blood borne diseases
- Exposed to hazardous agents, body fluids and wastes
- Exposed to odorous chemicals and specimens
- Subject to hazards of flammable, explosive gases
- Subject to burns and cuts
- Contact with patients having different religious, culture, ethnicity, race, sexual orientation, psychological and physical disabilities, and under a wide variety of circumstances
- Handle emergency or crisis situations
- Subject to many interruptions
- Requires decisions/actions related to end of life issues
- Exposed to products containing latex

English Language Skills:

Although proficiency in English is not a criteria for admission into the program, students are encouraged to be able to speak, write and read English to complete classes successfully and to ensure safety for themselves and for others.

Nursing Department Major S1203

The Mt. San Antonio College Nursing Program, approved and accredited by the California Board of Registered Nursing, is a two-year program designed to prepare men and women to give direct nursing care to clients in various practice settings. The program consists of course work in nursing, science, general education and clinical nursing practice at local hospitals and health agencies. Graduates of the program receive an Associate of Science Degree in Nursing and are eligible to take the NCLEX-RN examination leading to licensure as a Registered Nurse.

Prerequisite Courses:

- 1. Human Anatomy, including a laboratory component, a minimum of four (4) semester units.
- 2. Human Physiology, including a laboratory component, a minimum of four (4) semester units.
- 3. Microbiology, including a laboratory component, a minimum of four (4) semester units.
- 4. English 1A (Writing Composition) minimum of three (3) semester units with a minimum grade of C.

Non-course requirements:

- An overall grade point average of 2.5 for the Human Anatomy, Human Physiology, and Microbiology prerequisite courses with no grade less than a "C" for each course and no more than one repetition of any one of the courses.
- 2. A cumulative grade point average (GPA) of 2.5 for all college coursework completed.
- 3. Eligibility for Math 51
- 4. High school graduation or GED or academic degree from an accredited college/university in the United States.
- 5. Criminal background check and drug screening must be completed prior to any patient contact.
- A physical examination, including specific immunizations is required of all candidates prior to the beginning of nursing classes.
- 7. Current Level C-Provider CPR certification

Regarding Licensure:

The California Board of Registered Nursing (BRN) protects the consumer by screening applicants for licensure in order to identify potentially unsafe practitioners. The BRN may deny applications for interim permits, temporary licenses, and permanent licensure, if the applicant has been found guilty of dishonesty, fraud or deceit, felony child abuse, sex offend crimes, acts involving narcotics, dangerous drugs or devices, assault and/or battery, and other crimes. Applicants who have questions regarding limitations related to licensure should contact the California Board of Registered Nursing at (916) 322-3350 or access its website at www.rn.ca.gov

Requirements for Nursing

| Required co | Required courses: | | | | |
|-------------|--|--------|---------|--|--|
| NURS 1A | The Nursing Process I | 4.7 | CSU | | |
| NURS 1B | The Nursing Process II | 4.7 | CSU | | |
| NURS 2 | Pharmacology | 2.0 | CSU | | |
| NURS 3 | Medical-Surgical Nursing: | 3.5 | CSU | | |
| | Locomotion/Sensation/ | | | | |
| | Integument/Oncology/Immunol | 57 | | | |
| NURS 4 | Maternity Nursing | 3.0 | CSU | | |
| NURS 5 | Psychiatric Nursing | 3.0 | CSU | | |
| NURS 6 | Pediatric Nursing | 3.0 | CSU | | |
| NURS 7 | Medical-Surgical Nursing: | 7.0 | CSU | | |
| | Nutrition/Elimination/Surgical A | | | | |
| NURS 8 | Medical-Surgical Nursing: Circulation and Oxygenation | 5.0 | CSU | | |
| NURS 9 | Leadership in Nursing | 1.0 | CSU | | |
| NURS 10 | Medical-Surgical Nursing: | 4.0 | CSU | | |
| | Integration/Regulation | | | | |
| NURS 11 | Preceptorship in Nursing | 2.0 | CSU | | |
| | Total Units | 43.0 | | | |
| Requirer | nents for the Major | | | | |
| ANAT 35 | Human Anatomy | 5.0 | CSU, UC | | |
| | and | | | | |
| ANAT 36 | Human Physiology | 5.0 | CSU, UC | | |
| | or | | | | |
| ANAT 10A | Introductory Human Anatomy | 4.0 | CSU, UC | | |
| | and , | | | | |
| ANAT 10B | Introductory Human Physiology | 4.0 | CSU, UC | | |
| MICR 1 | Principles of Microbiology | 5.0 | CSU, UC | | |
| | <u>or</u> | | | | |
| MICR 22 | Microbiology | 4.0 | CSU, UC | | |
| ENGL 1A | Freshman Composition | 3.0 | CSU, UC | | |
| CHLD 10 | Child Growth and Development | 3.0 | CSU, UC | | |
| | or | | , | | |
| PSYC 14 | Developmental Psychology | 3.0 | CSU, UC | | |
| PSYC 1A | Introduction to Psychology | 3.0 | CSU, UC | | |
| SPCH 1A | Public Speaking | 3.0 | CSU, UC | | |
| | Total Units | 24.0 | - 27.0 | | |
| PSVC 1A m | ust be completed prior to entrand | _ inte | | | |
| | ic Nursing. CHLD 10, or PSYC 14 n | | | | |
| | prior to entrance into NURS 6: Pe | | | | |
| Nursing. | , | | | | |
| 2 | | | | | |

NOTE: Applicants planning to continue their education and enter a baccalaureate program in nursing will need to complete ANAT 35 and ANAT 36 instead of ANAT 10A and ANAT 10B and MICR 1 instead of MICR 22.

Requirements for the Associate Degree

Students must develop an education plan with a counselor or educational advisor to complete college academic requirements for the AS degree. Contact Counseling and Advising Services to schedule an appointment.

Application Process:

Beginning Fall 2006, students applying for admission to the Nursing Program will be required to see either a counselor or educational advisor to verify their eligibility to enter into the nursing admission lottery.

Procedure:

Students must complete all course prerequisites prior to requesting an appointment for certifying readiness to enter into the Nursing lottery process:

 Students must complete all course prerequisites prior to requesting an appointment for certifying readiness to enter into the Nursing lottery process:

Course Prerequisites:

- a) ANAT 10A or 35, Human Anatomy;
- b) ANAT 10B or 36, Human Physiology
- c) MICRO 1 or 22, Microbiology
- d) ENGL 1A, Freshman Composition
- 2) Eligibility for entering the Nursing admission lottery will be based on the following performance criteria:
 - a) A grade point average of 2.5 in Human Anatomy, Human Physiology and Microbiology. Each course must be completed with a minimum grade of "C", and no more than one repetition of one course.
 - b) English composition must be completed with a grade of "C", or higher;
 - c) A minimum cumulative grade point average of 2.5, in all college coursework completed at the time of certification;
 - d) Students must have eligibility to enroll in MATH 51, Elementary Algebra.
- 3) The eligibility appointment:
 - a) Once a student has completed all course prerequisites, they may request an appointment with a counselor or educational advisor.
 - b) Students who have completed coursework at other colleges must bring the following

information to their eligibility appointment:

- Official transcripts of all college work completed at all colleges;
- If the prerequisite courses were completed at another college, a course description and a copy of the course syllabus;
- Students completing college coursework outside of the United States will need to have their transcripts evaluated by an approved international transcript evaluation agency and must bring the final evaluation to their appointment (students may be able to obtain a list of agencies from the Admissions & Records Office.
- Due to specific college deadlines for International Student applications, please inform the Counselor/Educational Advisor that this applies to you.
- c) All students will need to bring official proof of high school graduation, GED, or college graduation from an accredited institution in the United States.

APPOINTMENTS FOR ELIGIBILTY VERIFICATION WILL ONLY BE MADE DURING THE FOLLOWING MONTHS:

- September 1 October 31
- March 1 April 30

Students should also be aware that once they have been admitted to the Nursing program and before beginning the clinical portion of the program, they will need to be able to pass both a criminal background check, including a screening by the Office of Inspector General for welfare or Social Security fraud, as well as testing negative for drug use.

FINAL SELECTION OF STUDENTS FOR EACH NURSING CLASS WILL BE DETERMINED BY LOTTERY.

ALL APPLICANTS ARE REQUIRED TO MEET THE ESSENTIAL FUNCTIONS FOR SUCCESS IN THE NURSING PROGRAM.

Physical Demands:

- Perform prolonged, extensive, or considerable standing/walking, lifting positioning, pushing, and/or transferring patients
- Possess the ability to perform fine motor movements with hands and fingers
- Possess the ability for extremely heavy effort (lift/carry 50 lbs. or more)

 Perform considerable reaching, stooping, bending, kneeling, crouching.

Sensory Demands:

- <u>Color vision</u>: ability to distinguish and identify colors (may be corrected with adaptive devices).
- <u>Distance vision</u>: ability to see clearly 20 feet or more
 Depth perception: ability to judge distance and
- space relationships
- <u>Near vision</u>: ability to see clearly 20 inches or less
- <u>Hearing</u>: able to recognize a full range of tones

Working Environment:

- May be exposed to infectious and contagious disease without prior notification
- Regularly exposed to the risk of blood borne diseases
- Exposed to hazardous agents, body fluids and wastes
- Exposed to odorous chemicals and specimens
- Subject to hazards of flammable, explosive gases
- Subject to burns and cuts
- Contact with patients having different religious, culture, ethnicity, race, sexual orientation, psychological and physical disabilities, and under a wide variety of circumstances
- Handle emergency or crisis situations
- Subject to many interruptions
- Requires decisions/actions related to end of life issues
- Exposed to products containing latex

English Language Skills:

Although proficiency in English is not a criteria for admission into the nursing program, students are encouraged to be able to speak, write and read English to complete classes successfully and to ensure safety for themselves and for others.

Ornamental Horticulture Agricultural Sciences Department Maior S0119

The courses in ornamental horticulture are designed to enable students to prepare for exciting careers in the essential and diverse horticulture profession. Careers in nursery management, retail garden centers, landscape design, installation and maintenance, arboretum and botanic gardens, arboriculture, interior landscaping, education, and research are just some of the options.

This degree is part of our comprehensive agricultural sciences program. Our program is unique in that most courses provide hands-on experience and are designed to give the student combination of practical skills and technical knowledge. Students who intend to transfer should meet with a counselor or advisor to check the lower division requirements in the catalog of the college or university which they will attend and also the semester and year in which courses are offered.

Listed below are the courses needed to satisfy major requirements. It is recommended that students consult with the department chairperson, advisor or counselor to file an educational plan. For additional information, please call the Agricultural Sciences Department, ext. 4540, or visit the Mt. SAC Web site at www.mtsac.edu/instruction/sciences/agriculture.

Requirements for the Major *Required courses:*

| AGAG 1 | Food Production, Land Use | | CSU,UC |
|---------|-------------------------------------|-------|--------|
| | and Politics - A Global Perspective | | |
| AGOR 1 | Horticultural Science | 3.0 | CSU |
| AGOR 2 | Plant Propagation/ | 3.0 | CSU |
| | Greenhouse Management | | |
| AGOR 13 | Landscape Design | 3.0 | CSU |
| AGOR 24 | Integrated Pest Management | 3.0 | CSU |
| AGOR 29 | Ornamental Plants - Herbaceous | 3.0 | CSU,UC |
| AGOR 30 | Ornamental Plants | 3.0 | CSU,UC |
| | - Trees and Woody Shrubs | | |
| AGOR 32 | Landscaping | 3.0 | CSU |
| | and Nursery Management | | |
| AGOR 39 | Turf Grass Production | 3.0 | CSU |
| | and Management | | |
| AGOR 50 | Soil Science and Management | 3.0 | CSU,UC |
| AGOR 62 | Landscape Irrigation | 3.0 | CSU |
| | - Design and Installation | | |
| AGOR 71 | Landscape Construction | 3.0 | CSU |
| | Fundamentals | | |
| AGOR 91 | Work Experience | 1.0 - | - 4.0 |
| | in Nursery Operations | | |

| Select six (6) units from: | | | | | |
|----------------------------|----------------------------|------|--------|--|--|
| AGOR 15 | Interior Landscaping | 3.0 | | | |
| AGOR 25 | Floral Design I | 3.0 | CSU | | |
| AGOR 26 | Floral Design II | 3.0 | CSU | | |
| AGOR 40 | Sports Turf Management | 3.0 | | | |
| AGOR 51 | Tractor and Landscape | 3.0 | CSU | | |
| | Equipment Operations | | | | |
| AGOR 53 | Small Engine Repair I | 3.0 | CSU | | |
| AGOR 63 | Landscape Irrigation | 3.0 | | | |
| | Systems Management | | | | |
| AGOR 72 | Landscape Hardscape | 3.0 | CSU | | |
| | Applications | | | | |
| AGOR 75 | Urban Arboriculture | 3.0 | | | |
| CISB 15 | Microcomputer Applications | 4.0 | CSU,UC | | |
| | Total Units | 43.0 | - 46.0 | | |

PLUS

Paralegal/Legal - Bankruptcy Specialty

Business Administration Department Major S1401

The Paralegal/Legal - Bankruptcy Specialty program is intended to prepare students for employment as paralegals in both private and public sectors following graduation. The American Bar Association (ABA) By-Laws Section 21.12 uses the terms paralegal and legal assistant interchangeably referring to persons who, although not members of the legal profession, are qualified through education, training, or work experience and are employed or retained by a lawyer, law office, governmental agency, or other entity in a capacity or function which involves the performance, under the direction and supervision of an attorney, of specifically delegated substantive legal work. Paralegals/legal assistants must comply with the legal restrictions in the practice of law by nonlawyers.

The paralegal program stresses practical application and the development of job skills, as well as teaching legal theory. The program is designed to enhance the ability of students to reason, understand and apply correct principles of law by teaching analytical and critical thinking skills as opposed to rote learning. Graduates of the program will qualify for entry level employment and will possess skills for advancement and specialized areas in the paralegal profession. Students wishing a Bachelor's Degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses. The American Bar Association has reviewed the Paralegal/Legal Specialist Program and found it in compliance with the standards developed by the Standing Committee on Legal Assistant Programs. The Paralegal/Legal Specialty Program has been granted approval by the American Bar Association.

Requirements for the Major Required courses:

| PLGL 35A | Law Office Procedures | 3.0 | CSU |
|----------------------|---|------------|------------|
| PLGL 35A PLGL 35B | Automated Law Office | 3.0 3.0 | (20 |
| | Procedures | 2.0 | <i>ccu</i> |
| PLGL 37 | Tort Law | 3.0 | CSU |
| PLGL 38 | Employment and Ethical Issues in Paralegalism | 2.0 | |
| PLGL 39 | Contract Law | 3.0 | CSU |
| PLGL 41 | Property Law | 3.0 | CSU |
| PLGL 44 | Bankruptcy Law | 3.0 | CSU |
| PLGL 45 | Creditors' Rights | 3.0 | CSU |
| | Total Units | 38.0 | |
| | 5 | 38.0 | |

The Paralegal/Legal faculty recommend that students complement their studies with selected elective courses, including PLGL 36 - Paralegal Internship.

Special Information:

The ABA does not recognize the following courses as meeting its definition of General Education: ARTB 14, ARTD 15A, ARTD 17A, ARTD 20, ARTD 25A, ARTS 30A, ARTS 40A, THTR 11, MUS 7, AD 3 and COUN 5. Students developing their educational plan should select another course from the Mt.SAC General Education area which will satisfy that area's General Education requirement.

Paralegal/Legal

- Corporations/Business Specialty Business Administration Department Major S1405

The Paralegal/Legal - Corporations/Business Specialty program is intended to prepare students for employment as paralegals in both private and public sectors following graduation. The American Bar Association (ABA) By-Laws Section 21.12 uses the terms paralegal and legal assistant interchangeably referring to persons who, although not members of the legal profession, are qualified through education, training, or work experience and are employed or retained by a lawyer, law office, governmental agency, or other entity in a capacity or function which involves the performance, under the direction and supervision of an attorney, of specifically delegated substantive legal work. Paralegals/legal assistants must comply with the legal restrictions in the practice of law by nonlawyers.

The paralegal program stresses practical application and the development of job skills as well as teaching legal theory. The program is designed to enhance the ability of students to reason, understand and apply correct principles of law by teaching analytical and critical thinking skills as opposed to role learning. Graduates of the program will qualify for entry level employment and will possess skills for advancement and specialized areas in the paralegal profession. Students wishing a Bachelor's Degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses.

The American Bar Association has reviewed the Paralegal/Legal Specialist Program and found it in compliance with the standards developed by the Standing Committee on Legal Assistant Programs. The Paralegal/Legal Specialty Program has been granted approval by the American Bar Association.

Requirements for the Major Reauired courses:

| BUSL 18 | Business Law | 3.0 | CSU,UC |
|----------|--|-----|--------|
| | <u>or</u> | | |
| BUSL 18H | Business Law - Honors | 3.0 | CSU,UC |
| BUSL 19 | Advanced Business Law | 3.0 | CSU,UC |
| BUSL 20 | International Business Law | 3.0 | |
| PLGL 30 | Introduction to Paralegal/Legal | 3.0 | CSU |
| PLGL 31A | Legal Analysis and Writing | 3.0 | CSU |
| PLGL 31B | Advanced Legal Analysis and Writing | 3.0 | CSU |
| PLGL 33A | Civil Procedure Pretrial | 3.0 | CSU |
| | | | |

| - | PLGL 33B | Civil Procedure-Trial and Post-Trial | 3.0 | CSU | |
|-----|----------|---|-------|-----|--|
| | PLGL 35A | Law Office Procedures | 3.0 | CSU | |
| | PLGL 35B | Automated Law Office Procedur | es3.0 | | |
| | PLGL 37 | Tort Law | 3.0 | CSU | |
| | PLGL 38 | Employment and Ethical Issues in Paralegalism | 2.0 | | |
| | PLGL 39 | Contract Law | 3.0 | CSU | |
| | | Total Units | 38.0 | | |
| t I | - | | | | |

Recommended Electives:

The Paralegal/Legal faculty recommend that students complement their studies with selected elective courses, including PLGL 36 - Paralegal Internship and PLGL 50 - Comparative Law.

Special Information:

The ABA does not recognize the following courses as meeting its definition of General Education: ARTB 14, ARTD 15A, ARTD 17A, ARTD 20, ARTD 25A, ARTS 30A, ARTS 40A, THTR 11, MUS 7, AD 3, and COUN 5. Students developing their educational plan should select that area's General Education requirements.

Paralegal/Legal - Criminal Specialty Business Administration Department Maior S1402

The Paralegal/Legal - Criminal Specialty program is intended to prepare students for employment as paralegals in both private and public sectors following graduation. The American Bar Association (ABA) By-Laws Section 21.12 uses the terms paralegal and legal assistant interchangeably referring to persons who, although not members of the legal profession, are qualified through education, training, or work experience and are employed or retained by a lawyer, law office, governmental agency, or other entity in a capacity or function which involves the performance, under the direction and supervision of an attorney, of specifically delegated substantive legal work. Paralegals/legal assistants must comply with the legal restriction in the practice of law by nonlawyers.

The paralegal program stresses practical application and the development of job skills as well as teaching legal theory. The program is designed to enhance the ability of students to reason, understand and apply correct principles of law by teaching analytical and critical thinking skills as opposed to rote learning. Graduates of the program will qualify for entry level employment and

will possess skills for advancement and specialized areas in the paralegal profession. Students wishing a Bachelor's Degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses. The American Bar Association has reviewed the Paralegal/Legal Specialist Program and found it in compliance with the standards developed by the Standing Committee on Legal Assistant Programs. The Paralegal/Legal Specialty Program has been granted approval by the American Bar Association.

Requirements for the Major *Required courses:*

| PLGL 30 | Introduction to Paralegal/Legal | 3.0 | CSU | |
|--------------------------------|---|--------|-----|--|
| PLGL 31A | Legal Analysis and Writing | 3.0 | CSU | |
| PLGL 31B | Advanced Legal Analysis and Writing | 3.0 | CSU | |
| PLGL 33A | Civil Procedure Pretrial | 3.0 | CSU | |
| PLGL 33B | Civil Procedure-Trial and Post-Trial | 3.0 | CSU | |
| PLGL 35A | Law Office Procedures | 3.0 | CSU | |
| PLGL 35B | Automated Law Office Procedur | es 3.0 | | |
| PLGL 37 | Tort Law | 3.0 | CSU | |
| PLGL 38 | Employment and Ethical Issues in Paralegalism | 2.0 | | |
| PLGL 39 | Contract Law | 3.0 | CSU | |
| PLGL 48 | Criminal Law and Procedures | 3.0 | CSU | |
| PLGL 49 | Evidence Law | 3.0 | CSU | |
| | Total Units | 35.0 | | |
| De service en de d Fle stinser | | | | |

Recommended Electives:

The Paralegal/Legal faculty recommend that students complement their studies with selected elective courses, including PLGL 36 - Paralegal Internship.

Special Information:

The ABA does not recognize the following courses as meeting its definition of General Education: ARTB 14, ARTD 15A, ARTD 17A, ARTD 20, ARTD 25A, ARTS 30A, ARTS 40A, THTR 11, MUS 7, AD 3 and COUN 5. Students developing their educational plan should select another course from the Mt. SAC General Education area which will satisfy that area's General Education requirements.

Paralegal/Legal - Family Law Specialty Business Administration Department Major S1403

The Paralegal/Legal - Family Law Specialty program is intended to prepare students for employment as paralegals in both private and public sectors following graduation. The American Bar Association (ABA) By-Laws Section 21.12 uses the terms paralegal and legal assistant interchangeably referring to persons who, although not members of the legal profession, are qualified through education, training, or work experience and are employed or retained by a lawyer, law office, governmental agency, or other entity in a capacity or function which involves the performance, under the direction and supervision of an attorney, of specifically delegated substantive legal work. Paralegals/legal assistants must comply with the legal restrictions in the practice of law by nonlawyers.

The paralegal program stresses practical application and the development of job skills as well as teaching legal theory. The program is designed to enhance the ability of students to reason, understand and apply correct principles of law by teaching analytical and critical thinking skills as opposed to rote learning. Graduates of the program will qualify for entry level employment and will possess skills for advancement and specialized areas in the paralegal profession. Students wishing a Bachelor's degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses.

The American Bar Association has reviewed the Paralegal/Legal Specialist Program and found it in compliance with the standards developed by the Standing Committee on Legal Assistant Programs. The Paralegal/Legal Specialty Program has been granted approval by the American Bar Association.

Requirements for the Major Required courses:

| PLGL 30 | Introduction to Paralegal/Legal | | CSU |
|----------|---|------|-----|
| PLGL 31A | Legal Analysis and Writing | 3.0 | CSU |
| PLGL 31B | Advanced Legal Analysis and Writing | 3.0 | CSU |
| PLGL 33A | Civil Procedure Pretrial | 3.0 | CSU |
| PLGL 33B | Civil Procedure-Trial and Post-Trial | 3.0 | CSU |
| PLGL 35A | Law Office Procedures | 3.0 | CSU |
| PLGL 35B | Automated Law Office Procedures | 53.0 | |
| PLGL 37 | Tort Law | 3.0 | CSU |
| PLGL 38 | Employment and Ethical Issues in Paralegalism | 2.0 | |

| | Total Units | 38.0 |
|---------|------------------|---------|
| PLGL 43 | Wills and Trusts | 3.0 CSU |
| PLGL 42 | Family Law | 3.0 CSU |
| PLGL 41 | Property Law | 3.0 CSU |
| PLGL 39 | Contract Law | 3.0 CSU |
| | | |

Recommended Electives:

The Paralegal/Legal faculty recommend that students complement their studies with selected elective courses, including PLGL 36 - Paralegal Internship.

Special Information:

The ABA does not recognize the following courses as meeting its definition of General Education: ARTB 14, ARTD 15A, ARTD 17A, ARTD 20, ARTD 25A, ARTS 30A, ARTS 40A, THTR 11, MUS 7, AD 3 and COUN 5. Students developing their educational plan should select another course from the Mt.SAC General Education area which will satisfy that area's General Education requirement.

Paralegal/Legal - Landlord/Tenant Specialty Business Administration Department Major S1404

The Paralegal/Legal - Landlord/Tenant Specialty program is intended to prepare students for employment as paralegals in both private and public sectors following graduation. The American Bar Association (ABA) By-Laws Section 21.12 uses the terms paralegal and legal assistant interchangeably referring to persons who although not members of the legal profession, are qualified through education, training, or work experience and are employed or retained by a lawyer, law office, governmental agency, or other entity in a capacity or function which involves the performance, under the direction and supervision of an attorney, of specifically delegated substantive legal work. Paralegals/legal assistants must comply with the legal restrictions in the practice of law by nonlawyers.

The paralegal program stresses practical application and the development of job skills as well as teaching legal theory. The program is designed to enhance the ability of students to reason, understand and apply correct principles of law by teaching analytical and critical thinking skills as opposed to rote learning. Graduates of the program will qualify for entry level employment and will possess skills for advancement and specialized areas in the paralegal profession. Students wishing a Bachelor's Degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses. The American Bar Association has reviewed the Paralegal/Legal Specialist Program and found it in compliance with the standards developed by the Standing Committee on Legal Assistant Programs. The Paralegal/Legal Specialty Program has been granted approval by the American Bar Association.

Requirements for the Major Required courses:

| Recommen | ded Electives: | | | |
|------------|---|-------|-----|--|
| | Total Units | 35.0 | | |
| PLGL 41 | Property Law | 3.0 | CSU | |
| PLGL 40 | Landlord-Tenant Law | 3.0 | CSU | |
| PLGL 39 | Contract Law | 3.0 | CSU | |
| r LuL 30 | in Paralegalism | 2.0 | | |
| PLGL 38 | Employment and Ethical Issues | 2.0 | 00 | |
| PLGL 37 | Tort I aw | | CSU | |
| PLGL 35B | Automated Law Office Procedur | es3.0 | | |
| PLGL 35A | Law Office Procedures | 3.0 | CSU | |
| PLGL 33B | Civil Procedure-Trial and Post-Trial | 3.0 | CSU | |
| | errit roccuure riceriur | | | |
| PLGL 33A | and writing Civil Procedure Pretrial | 3.0 | CSU | |
| PLGL 31B | Advanced Legal Analysis and Writing | 3.0 | CSU | |
| PLGL 31A | Legal Analysis and Writing | 3.0 | CSU | |
| PLGL 30 | Introduction to Paralegal/Legal | 3.0 | CSU | |
| neguneu co | <i>uuses</i> . | | | |

The Paralegal/Legal faculty recommend that students complement their studies with selected elective course including PLGL 36 Paralegal Internship.

Special Information:

The ABA does not recognize the following courses as meeting its definition of General Education: ARTB 14, ARTD 15A, ARTD 17A, ARTD 20, ARTD 25A, ARTS 30A, ARTS 40A, THTR 11, MUS 7, AD 3 and COUN 5. Students developing their educational plan should select another course from the Mt.SAC General Education area which will satisfy that area's General Education requirement.

Park and Sports Turf Management Agricultural Sciences Department Major S0116

The courses in park and sports turf management are designed to enable students to prepare for a career in this essential and diverse profession. This degree is part of our comprehensive Agricultural Sciences Program. The program is unique in that most courses provide hands-on experience designed to give the student a combination of practical skills and technical knowledge. Students who intend to transfer should meet with a counselor or advisor to check the lower division requirements in the catalog of the college or university which they will attend and also the semester and year in which courses are offered.

This program is intended to prepare students to manage a park or sports facility and also for employment following graduation. Students will learn how to design, install and manage irrigation systems, set up and implement fertilizer and pest management programs, design and properly install a complete landscape (including all plants and hard cape), and properly identify and maintain trees, shrubs and turf grasses. In addition, students will learn about personnel management, budgeting and other management topics.

Requirements for the Major Required courses:

| ts | AGAG 1 | Food Production, Land Use | 30 | CSU,UC | area of agri | cultu |
|---------|---------|--|-----|--------|--------------|-------|
| rses, | AUAU I | and Politics - A Global Perspectiv | | C30,0C | Requirer | |
| | AGOR 4 | Park Management | 3.0 | | Required co | |
| | AGOR 5 | Park Facilities | 3.0 | | AGAB 20 | Mic |
| s | AGOR 13 | Landscape Design | 3.0 | CSU | | in A |
| l l | AGOR 24 | Integrated Pest Management | 3.0 | CSU | AGAN 1 | Ani |
| ARTS | AGOR 29 | Ornamental Plants - Herbaceous | 3.0 | CSU,UC | AGAN 2 | Ani |
| | AGOR 30 | Ornamental Plants | 3.0 | CSU,UC | AGAN 51 | Ani |
| ther | | - Trees and Woody Shrubs | | | AGAN 94 | Ani |
| ch will | AGOR 39 | Turf Grass Production | 3.0 | CSU | AGLI 96 | Ani |
| | | and Management | | | | and |
| | AGOR 51 | Tractor and Landscape | 3.0 | CSU | AGPE 70 | Pet |
| | | Equipment Operations | | | AGPE 71 | Car |
| | AGOR 62 | Landscape Irrigation | 3.0 | CSU | AGPE 72 | Feli |
| | AGOR 63 | - Design and Installation | 3.0 | | AGPE 73 | Tro |
| | AGOR 05 | Landscape Irrigation Systems Management | 5.0 | | | Fisł |
| | AGOR 71 | Landscape Construction | 3.0 | CSU | AGPE 74 | Rep |
| | | Fundamentals | 5.0 | CJU | AGPE 76 | Avi |
| | AGOR 75 | Urban Arboriculture | 3.0 | | | Tot |
| | AGOR 91 | Work Experience | | - 4.0 | | |
| | Adonyi | in Nursery Operations | 1.0 | 1.0 | | |
| | CISB 15 | Microcomputer Applications | 4.0 | CSU,UC | | |
| | | 1 11 | | - 47.0 | | |
| | | | | | | |

Pet Science Agricultural Sciences Department Major S0104

The program of courses in Agriculture is designed to enable students to prepare for a career in this essential and diverse profession. The Department offers a comprehensive Agricultural Sciences Program and is unique in that most courses provide hands-on experience designed to give the student a combination of practical skills and technical knowledge. Students who intend to transfer should meet with a counselor or advisor to check the lower division requirements in the catalog or the college or university they will attend and also the semester and year in which courses are offered.

The following programs list all courses needed to satisfy major requirements. Students may obtain certificates upon completion of required courses listed. It is recommended that all students consult with the department chairperson, counselor or advisor to file an educational plan.

These programs are intended to prepare students for employment following graduation. Students desiring a Bachelor's Degree (transfer program) should consult with the department chairperson, counselor or advisor to discuss transferability of courses. The curriculum is flexible in nature to allow for previous experience and specialization in a given area of agriculture and agricultural business.

equirements for the Major

| • | | neguirea co | urses. | | |
|-----|--------------|-------------|-----------------------------------|-------|--------|
| 0 | C (1) | AGAB 20 | Microcomputer Applications | 3.0 | CSU,UC |
| 0 | CSU | | in Agriculture | | |
| 0 | CSU | AGAN 1 | Animal Science | 3.0 | CSU,UC |
| 0 | CSU,UC | AGAN 2 | Animal Nutrition | 3.0 | CSU |
| 0 | CSU,UC | AGAN 51 | Animal Handling and Restraint | 3.0 | CSU |
| | | AGAN 94 | Animal Breeding | 3.0 | |
| 0 | CSU | AGLI 96 | Animal Sanitation | 3.0 | CSU |
| | | | and Disease Control | | |
| 0 | CSU | AGPE 70 | Pet Shop Management | 3.0 | |
| | | AGPE 71 | Canine Management | 3.0 | |
| 0 | CSU | AGPE 72 | Feline Management | 3.0 | |
| ~ | | AGPE 73 | Tropical and Coldwater | 2.0 | |
| 0 | | | Fish Management | | |
| ~ | CC 11 | AGPE 74 | Reptile Management | 2.0 | |
| 0 | CSU | AGPE 76 | Aviculture - Cage and Aviary Bird | s 3.0 | |
| 0 | | | Total Units | 34.0 | |
| - | 4.0 | | | | |
| 0 - | - 4.0 | | | | |
| 0 | CSULUC | | | | |

Photography

Commercial and Entertainment Arts Major S1002

Requirements for the Major

This program is designed to prepare the student for employment in the field of photography. A variety of career opportunities are available in photography, art, cinema, communications, industrial arts, graphics, and journalism. Students desiring a Bachelor's Degree should consult with an advisor or catalog of the institution they wish to attend regarding transferability of courses.

| Required co | nents for the Major | | | AN AN |
|-------------|--|---------|--------|----------|
| GRAP 10 | Photo Editing with Photoshop | 3.0 | | NF |
| PHOT 10 | Basic Digital and Film Photography | 3.0 | CSU,UC | |
| PHOT 11 | Advanced Professional Photography | 4.0 | | NF |
| PHOT 12 | Photographic Alternatives | 3.0 | CSU,UC | NF |
| PHOT 15 | History of Photography | 3.0 | CSU,UC | PF |
| PHOT 16 | Fashion Photography | 3.0 | | ' ' |
| | <u>or</u> | | | PF |
| PHOT 18 | Portraiture | 3.0 | | ' ' |
| | and Wedding Photography | | | PE |
| PHOT 17 | Photocommunication | 3.0 | | PF |
| PHOT 20 | Color Photography | 3.0 | | • - |
| PHOT 21 | Exploring Color Photography | 3.0 | | PE |
| PHOT 28 | Photography Portfolio | 2.0 | | PL |
| | Development | | | Se |
| PHOT 30 | Commercial | 3.0 | | DN |
| | and Illustrative Photography | | | PF |
| | Total Units | 33.0 | | ' ' |
| | ded Electives: | | | PE |
| AHIS 1 | Understanding the Visual Arts | | | PE |
| | <u>or</u> | | | • - |
| ARTB 1 | Understanding the Visual Arts | | | PE |
| GRAP 12 | Advanced Photo Editing with P | hotosh | ор | |
| PHOT 1 | Laboratory Studies: Black and White Photography | | | PE |
| PHOT 2 | Laboratory Studies: Color Photo | ography | / | |
| | | | | |
| | | | | |
| | | | | |
| | | | | 1 |

Physical Education Physical Education Department Maior S0806

This program is designed to prepare students for employment in the field of Physical Education. Students wishing a Bachelor's Degree (transfer program) should consult with a counselor or advisor to file an educational educational plan and to discuss transferability.

Requirements for the Major Reauired courses: ANAT 35 Human Anatomy 5.0 CSU.UC NAT 36 Human Physiology 5.0 CSU,UC F 10 Nutrition for Personal Health 3.0 CSU and Wellness or 3.0 CSU,UC F 25 Essentials of Nutrition or F 25H Essentials of Nutrition - Honors 3.0 CSU.UC E 3 First Aid and CPR 3.0 CSU,UC or E 5 Advanced First Aid/ 3.0 CSU **CPR/Emergency Response** Introduction to Physical Education 3.0 CSU,UC E 17 E 19 Introduction to Care/Prevention 3.0 CSU,UC of Activity/Sports - Related Injuries E 34 Fitness for Living 3.0 CSU.UC LUS elect eight (8) courses from: NCE Dance: Activity 0.5 - 2.0 CSU.UC Physical Education: 0.5 - 2.0 CSU,UC E-A Aquatics E-F Physical Education: Fitness 0.1 - 2.5 CSU, UC E-I Physical Education: 0.5 - 1.0 CSU,UC Individual E-L Physical Education: 0.5 - 1.0 CSU,UC Adaptive E-S Physical Education: 0.5 - 1.0 CSU,UC Team Sports **Total Units** 28.6 - 41.5

Psychiatric Technician to RN Nursing Department Maior S1209

ajor S1209

The Mt. San Antonio College Nursing Program, approved and accredited by the California Board of Registered Nursing, is a two-year program designed to prepare men and women to give direct nursing care to clients in various practice settings. The program consists of course work in nursing, science, general education and clinical nursing practice at local hospitals and health agencies. Graduates of the program receive an Associate of Science Degree in Nursing and are eligible to take the NCLEX-RN examination leading to licensure as a Registered Nurse. The Psychiatric Technician is provided career mobility into

The Psychiatric Technician is provided career mobility into the Nursing Program to earn an Associate Degree in Nursing.

Prerequsite Courses:

| rier | equiste courses. | |
|------|--|----|
| 1. | Human Anatomy, including a laboratory component, a minimum of four semester units. | N |
| 2. | Human Physiology, including a laboratory | N |
| Ζ. | / 5// 5 / | N |
| | component, a minimum of four semester units. | |
| 3. | Microbiology, including a laboratory component, a minimum of four semester units. | N |
| 4. | English 1A (Writing Composition) minimum of three semester units with units with a minimum grade of C. | R |
| 5. | PSYC 1A Introduction to Psychology | A |
| 6. | CHLD 10 Child Growth and Development <i>or</i> | |
| 0. | PSYC 14 Developmental Psychology | A |
| | | |
| | -course requirements: | A |
| 1. | An overall grade point average of 2.5 for the Human | |
| | Anatomy, Human Physiology, and Microbiology | |
| | prerequisite courses with no grade less than a "C" for | A |
| | each course and no more than one repetition of any | N |
| 2. | A cumulative grade point average (GPA) of 2.5 for all | |
| | college coursework completed. | N |
| 3. | Eligibility for MATH 51. | E |
| 4. | High school graduation or GED or academic degree from an accredited college/university in the United States. | C |
| 5. | Possess a current California Psychiatric Technician | |
| | License. | P |
| 6. | Criminal background check and drug screening must | P |
| 0. | be passed prior to any patient contact. | S |
| 7. | A physical examination, including specific | |
| 7. | immunizations is required of all candidates prior to | N |
| | the beginning of nursing classes. | a |
| 8. | Current Level C-Provider CPR certification | to |
| | | |

9. Nursing 70 Role Transition must be completed with a credit grade prior to entrance into the program.

(NURS 70: Role Transition - Due to the clinical component of NURS 70, applicants must submit their names to Nursing Office for approval prior to enrollment in this course. Applicants must have completed all prerequisite courses prior to taking NURS 70. Applicants must provide proof of current Psychiatric Technician License, physical, CPR card, Background Check, and drug test prior to the start of class.)

2 5 6611

Requirements for Nursing Required courses:

| NURS 3 | Medical-Surgical Nursing: | 3.5 | CSU | | |
|---|--|-------|---------|--|--|
| | Locomotion/Sensation/Integun | nent/ | | | |
| | Oncology/Immunology | | | | |
| NURS 4 | Maternity Nursing | 3.0 | CSU | | |
| NURS 6 | Pediatric Nursing | 3.0 | CSU | | |
| NURS 7 | Medical-Surgical Nursing: | 7.0 | | | |
| | Nutrition/Elimination/Surgical A | | | | |
| NURS 8 | Medical-Surgical Nursing: Circulation and Oxygenation | 5.0 | CSU | | |
| NURS 9 | Leadership in Nursing | 1.0 | CSU | | |
| NURS 10 | Medical-Surgical Nursing: Integration/Regulation | 4.0 | CSU | | |
| NURS 11 | Preceptorship in Nursing | 2.0 | CSU | | |
| | Total Units | 28.5 | | | |
| Requirer | ments for the Major | | | | |
| ANAT 35 | Human Anatomy | 5.0 | CSU, UC | | |
| | <u>and</u> | | | | |
| ANAT 36 | Human Physiology | 5.0 | CSU, UC | | |
| | <u>or</u> | | | | |
| ANAT 10A | Introductory Human Anatomy and | 4.0 | CSU, UC | | |
| ANAT 10B | Introductory Human Physiology | 4.0 | CSU, UC | | |
| MICR 1 | Principles of Microbiology | 5.0 | CSU, UC | | |
| | or | | | | |
| MICR 22 | Microbiology | 4.0 | CSU, UC | | |
| ENGL 1A | Freshman Composition | 4.0 | CSU, UC | | |
| | <u>or</u> | | | | |
| CHLD 10 | Child Growth and Development | 3.0 | CSU, UC | | |
| | <u>or</u> | | | | |
| PSYC 14 | Developmental Psychology | 3.0 | CSU, UC | | |
| PSYC 1A | Introduction to Psychology | 3.0 | CSU, UC | | |
| SPCH 1A | Public Speaking | 3.0 | CSU, UC | | |
| | Total Units | 25.0 | - 27.0 | | |
| NOTE: Applicants planning to continue their education | | | | | |

NOTE: Applicants planning to continue their education and enter a baccalaureate program in nursing will need to complete ANAT 35 and ANAT 36 instead of ANAT 10A and ANAT 10B and MICR 1 instead of MICR 22.

Requirements for the Associate Degree

Students must develop an education plan with a counselor or educational advisor to complete college academic requirements for the A.S. degree. Contact Counseling and Advising Services to schedule an appointment.

Selection Process

Beginning Fall 2006, students applying for admission to the Nursing Program will be required to see either a counselor or educational advisor to verify their eligibility to enter the Nursing program.

Procedure:

Students must complete all course prerequisites prior to requesting an appointment for certifying readiness to enter into the Nursing program. Once eligibility has been established, students will enter on a first come first served basis.

The eligibility appointment:

- a) Once a student has completed all course prerequisites, the student will then apply to the Nursing Department on an appointment basis.
- b) Students who have completed coursework at other colleges must bring the following information to their eligibility appointment:
 - Official transcripts of all college work completed at all colleges;
 - If the prerequisite courses were completed at another college, a course description and a copy of the course syllabus;
 - Students completing college coursework outside of the United States will need to have their transcripts evaluated by an approved international transcript evaluation agency and must bring the final evaluation to their appointment (students may be able to obtain a list of agencies from the Admissions Office).
 - Due to specific college deadlines for International Student applications, please inform the Counseling/Educational Advisor that this applies to you.
- c) All students will need to bring official proof of high school graduation, GED, or college graduation from an accredited institution in the United States.

APPOINTMENTS FOR ELIGIBILTY VERIFICATION WILL ONLY BE MADE DURING THE FOLLOWING MONTHS:

- September 1 October 31
- March 1 April 30

Students should also be aware that once they have been admitted to the Nursing program and before beginning the clinical portion of the program, they will need to be able to pass both a criminal background check, including a screening by the Office of Inspector General for welfare or Social Security fraud, as well as testing negative for drug use. ALL APPLICANTS ARE REQUIRED TO MEET THE ESSENTIAL FUNCTIONS FOR SUCCESS IN THE NURSING PROGRAM.

Physical Demands:

- Perform prolonged, extensive, or considerable standing/walking, lifting, positioning, pushing, and/or transferring patients
- Possess the ability to perform fine motor movements with hands and fingers
- Possess the ability for extremely heavy effort (lift/carry 50 lbs.or more
- Perform considerable reaching, stooping, bending, kneeling, and crouching

Sensorv Demands:

- Color vision: ability to distinguish and identify colors (may be corrected with adaptive devices).
- Distance vision: ability to see clearly 20 feet or more
- *Depth perception:* ability to judge distance and space relationships
- <u>Near vision</u>: ability to see clearly 20 inches or less
- *Hearing*: able to recognize a full range of tones

Working Environment:

- May be exposed to infectious and contagious disease, without prior notification
- Regularly exposed to the risk of blood borne diseases
- Exposed to hazardous agents, body fluids and wastes
- Exposed to odorous chemicals and specimens
- Subject to hazards of flammable, explosive gases
- Subject to burns and cuts
- Contact with patients having different religious, culture, ethnicity, race, sexual orientation, psychological and physical disabilities, and under a wide variety of circumstances

- Handle emergency or crisis situations
- Subject to many interruptions
- Requires decisions/actions related to end life issues
- Exposed to products containing latex

English Language Skills:

Although proficiency in English is not a criteria for admission into the program, students are encouraged to be able to speak, write and read English, to complete classes successfully and to ensure safety for themselves and for others.

Radio Broadcasting: Behind the Scenes Commercial and Entertainment Arts Maior S0606

The Radio Broadcasting Behind-the-Scenes Degree is designed for students who are interested in the nonperformance side of the broadcasting industry. Instruction in this major prepares students for entry-level jobs in a variety of areas including production, promotion, copywriting and management. Students also receive instruction in the business side of the industry and can further customize their program by selecting from a variety of optional courses. Students intending to pursue a Bachelor's Degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses.

Requirements for the Major Required courses:

| R-TV 01 | Introduction to Broadcasting | 3.0 CSU |
|-------------|--|-----------|
| R-TV 09 | Broadcast Sales and Promotion | 3.0 |
| R-TV 10 | Radio Management and Programming | 3.0 |
| R-TV 11A | Beginning Radio Production | 3.0 CSU |
| R-TV 11B | Advanced Radio Production | 3.0 CSU |
| R-TV 12 | Commercial Copywriting | 3.0 |
| R-TV 15 | Broadcast Business Practices | 3.0 |
| R-TV 16 | Broadcast Career Preparation | 3.0 |
| R-TV 97A | Radio/Entertainment Industry Seminar | 1.0 |
| R-TV 97B | Radio/Entertainment Industry Internship | 1.0 |
| R-TV 97C | KSAK Radio/Internet Radio Internship | 1.0 - 2.0 |
| PLUS | | |
| Select nine | (9) units from: | |
| R-TV 03 | Sportscasting and Reporting | 1.5 |

R-TV 04 Broadcast News Field Reporting 3.0 R-TV 05 Radio-TV Newswriting 3.0 R-TV 06 Broadcast Traffic Reporting 1.5 R-TV 08 KSAK Radio Studio Operations 2.0 CSU R-TV 17 Internet Radio and Podcasting 3.0 Legal Issues in Entertainment Law 3.0 R-TV 26 R-TV 27 Radio Drama 3.0 R-TV 31 History of Radio DJs 30 R-TV 33 Radio Show Producer Techniques 3.0 and Procedures Total Units 36.0 - 37.0

Radio Broadcasting: On the Air Commercial and Entertainment Arts Major S0605

The Radio Broadcasting On-The-Air Degree is designed to prepare students for an entry-level job in a variety of performance areas of the broadcasting industry, including disc jockey, news anchor, sportscaster, and commercial voice-overs. Students also receive instruction in the business side of the industry and can further customize their program by selecting from a variety of optional courses. Students intending to pursue a Bachelor's Degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses.

Requirements for the Major Reauired courses: P TV 01

| R-TV 01 | Introduction to Broadcasting | 3.0 | CSU | |
|-------------|---|------|-----|--|
| R-TV 02 | On-Air Personality Development | 3.0 | CSU | |
| R-TV 05 | Radio-TV Newswriting | 3.0 | | |
| R-TV 07A | Beginning Commercial Voice-Overs | 53.0 | | |
| R-TV 11A | Beginning Radio Production | 3.0 | CSU | |
| R-TV 11B | Advanced Radio Production | 3.0 | CSU | |
| R-TV 15 | Broadcast Business Practices | 3.0 | | |
| R-TV 16 | Broadcast Career Preparation | 3.0 | | |
| R-TV 97A | Radio/Entertainment | 1.0 | | |
| | Industry Seminar | | | |
| R-TV 97B | Radio/Entertainment | 1.0 | | |
| | Industry Internship | | | |
| R-TV 97C | KSAK Radio/Internet Radio 1.0 – Internship | 2.0 | | |
| PLUS | | | | |
| Select nine | (9) units from: | | | |
| R-TV 03 | Sportscasting and Reporting | 1.5 | | |
| R-TV 04 | Broadcast News Field Reporting | 3.0 | | |
| R-TV 06 | Broadcast Traffic Reporting | 1.5 | | |
| R-TV 07B | Advanced Commercial Voice-Overs | 3.0 | | |
| R-TV 08 | KSAK Radio Studio Operations | 2.0 | CSU | |
| | | | | |

| R-TV 09 | Broadcast Sales and Promotion | 3.0 | R/ | |
|------------------------|-----------------------------------|-------------|----|--|
| R-TV 10 | Radio Management | 3.0 | | |
| | and Programming | | RA | |
| R-TV 12 | Commercial Copywriting | 3.0 | | |
| R-TV 17 | Internet Radio and Podcasting | 3.0 | RA | |
| R-TV 26 | Legal Issues in Entertainment Law | 3.0 | | |
| R-TV 27 | Radio Drama | 3.0 | RA | |
| R-TV 31 | History of Radio DJs | 3.0 | | |
| R-TV 33 | Radio Show Producer Technique | s 3.0 | RA | |
| | and Procedures | | | |
| | Total Units | 36.0 - 37.0 | RA | |
| Recommended Electives: | | | | |
| ANIM 115 | Storyboarding | | RA | |
| | | | D | |

Radiologic Technology Radiologic Technology Department Major S1206

The course of study in Radiologic Technology offered at Mt. San Antonio College and its affiliated hospitals will prepare students to be certified radiologic technologists. Students will gain knowledge and understanding of the diagnostic uses of x-ray, as well as the technical skills to use x-ray equipment in both laboratory and clinical settings. The courses are developed to enable students to operate x-ray equipment, assist in the diagnosis of disease, and to observe proper medical ethics. Students will learn the nature of radiation, the principles of electricity, the structure of x-ray machines, and the operation of a clinical x-ray department.

To remain in the program, students must maintain a grade of "C" or better in all courses.

Upon completion of the Associate of Science Degree in Radiologic Technology, graduates are eligible to apply for the registry examination through the American Registry of Radiologic Technologists and the California Certification of Radiologic Technology. This is a licensed profession, and a valid Social Security Number is required to obtain state certification and national licensure.

Requirements for the Major *Required courses:*

| ANAT 10A | Introductory Human Anatomy | 4.0 | CSU,UC |
|----------|------------------------------|-----|--------|
| MEDI 90 | Medical Terminology | 3.0 | CSU |
| RAD 30 | Radiographic Pathology | 1.5 | |
| RAD 31 | Fluoroscopy | 2.0 | |
| RAD 32 | Digital Imaging in Radiology | 2.0 | |
| RAD 50 | Radiologic Technology | 3.0 | CSU |
| RAD 52A | Techniques | 4.5 | CSU |
| | of Radiologic Technology | | |
| | | | |

| NOT | E. ANAT | 104 and MEDI 00 may be taken | | r ta |
|-----|---------|--|------|--------------|
| | | | 77.0 | |
| RAD | 91 | Nursing Procedures in Radiologic Technology | 2.0 | CSU |
| RAD | • • | Theory of Radiologic Technology | 4.0 | CSU |
| RAD | | Theory of Radiologic Technology | 4.0 | CSU |
| RAD | | Radiologic Technology Seminar | 1.0 | CSU |
| RAD | | Radiographic Positioning | 3.0 | CSU |
| RAD | | Theory of Radiologic Technology | 4.0 | CSU |
| RAD | | Radiologic Technology Seminar | 1.0 | CSU |
| RAD | | Radiographic Positioning | 3.0 | CSU |
| RAD | • | Theory of Radiologic Technology | 4.0 | CSU |
| | (1) | of Radiologic Technology | | CC 11 |
| RAD | 57 | Techniques | 4.0 | CSU |
| | | of Radiologic Technology | | |
| RAD | 56 | Techniques | 7.0 | CSU |
| RAD | 228 | Techniques of Radiologic Technology | 2.5 | CSU |
| חעם | <i></i> | of Radiologic Technology | 2.5 | <i>cc</i> 11 |
| RAD | 55A | Techniques | 7.0 | CSU |
| RAD | 54 | Techniques of Radiologic Technology | 3.0 | CSU |
| | ГЛ | of Radiologic Technology | 2.0 | <i>cc</i> 11 |
| RAD | 53 | Techniques | 5.0 | CSU |
| RAD | 52B | Techniques of Radiologic Technology | 2.5 | CSU |

NOTE: ANAT 10A, and MEDI 90 may be taken prior to entering program.

Admission Requirements:

In addition to meeting Mt. San Antonio College's academic standards for admission, applicants must be in good standing and satisfy the following requirements:

- a) Applicant must be 18 years of age upon entrance into the program.
- b) High school graduate or equivalent.
- Possess a valid Social Security Card. This is a licensed profession, and a valid Social Security Number is required to obtain state certification and national licensure.
- d) File a college application and be accepted as a student at Mt. San Antonio College.
- e) Take the college placement examination which is used as an indicator. If you have already taken a college placement test exam within the past two years at another school, arrange to have your scores forwarded to the Technology and Health Division Office. (If you were tested at Mt. San Antonio College, the Technology and Health Division Office will obtain the test scores as long as an "Applicatoin for

- Admission" is on file with the Admissions and Records Office.) Arrangement should be made with the Service Center to schedule a date and time to take the college placement examination if required. The Assessment Center is open Monday through Friday. You may contact them at (909)594-5611 ext. 4265.
- f) Complete the following prerequisite courses with a minimum grade of "C" in each course.
 - General High School Algebra (one year) or Introductory College Alegbra (one semester) or MATH 51 (Elementary Algebra, or equivalent):
 - General High School Chemsistry (one year) or Introductory College Chemistry (one semester) or CHEM 10 - Chemistry for Allied Health. Students must complete prerequisite courses before applying to the program.
- g) After completion of the prerequisites, submit an application for the Radilogic Technology Program to the Technology and Health Division Office (909) 594-5611, ext. 4750. All applications are dated upon receipt in the Technology and Health Division Office. A program begins each summer intersession.
- Forward two official transcripts of all coursework completed (high school, and other than Mt. San Antonio Colelge courses). One transcript must be sent to Technology and Health Division Office and the other to Admissions and Records.
- i) For students who possess a college degree, the English placement test is not required, however, it will be necessary for a student to obtain two official copies of the college transcript showing the degree issued. One official transcript must be sent to Technology and Health Division Office and the other to Admissions and Records. If the courses were taken and/or the degree obtained at Mt. San Antonio College, it is not necessary to request transcripts. Request the transcript for the Division Office be addressed as follows:

Mt. San Antonio College Technology and Health Division Radiologic Technology Program 1100 North Grand Avenue Walnut CA 91789-1299

j) Make an appointment with an educational advisor to review genereal education requirements for graduation

Acceptance Requirements:

 A mandatory orientation meeting with the Radiologic Technology Department will be held during the spring semester. You will be contacted with date and time of orientation once you have been accepted.

- b) A physical examination, including certain immunizations and drug testing is required as part of the physical examination for all radiologic technology students before entrance into the clinical setting. Forms and information will be provided at time of orientation.
- c) All students will be required to pass a criminal background check prior to entering the clinical education phase (a valid Social Security Number is required to complete this process.)

Selection Procedure:

Selection of students is based upon the completion of the above admission requirements and date of application. The Department will make every effort to notify the applicant of acceptance by mail no less than one month prior to beginning of a program.

Program Completion Requirements:

- a) In addition to the major requirements and general education, students must also complete a course in venipuncture for radiographers. This course is offered through Continuing Education but may be taken elsewhere with prior approval from the department.
- b) A course in mammography is also offered in the final semester for graduate students and licensed radiographers. This course is optional.

Working Environment:

- May be exposed to infectious and contagious disease, without prior notification
- Regularly exposed to the risk of blood borne diseases
- Exposed to hazardous agents, body fluids and wastes
- Exposed to odorous chemicals and specimens
- Subject to hazards of flammable, explosive gases
- Subject to burns and cuts
- Contact with patients having different religious, culture, ethnicity, race, sexual orientation, psychological and physical disabilities, and under a wide variety of circumstances
- Handle emergency or crisis situations
- Subject to many interruptions
- Requires decisions/actions critical to patient safety
- Exposed to products containing latex.

Required Skills and Physical Abilities:

In order to ensure student and patient safety and welfare, the radiologic technology student must have sufficient strength, motor coordination, manual dexterity, intellectual capacity, and sensory funtions to be able to:

- Transport, move, lift, or transfer patients from a wheelchair or gurney to an x-ray table or to a patient bed.
- b) Lift arms above the head to move the x-ray tube assembly.
- Move, adjust, and manipulate portable and fluoroscopic equipment according to established procedures and standards of speed and accuracy while conducting radiographic examinations.
- d) Maneuver well enough to physically protect himself or herself from injury caused by patients exhibiting aggressive behaviors.
- Physically place patients in the proper positions for the examination according to established procedures and standards of speed and accuracy.
- f) Rapidly respond to situations involving the health and safety of patients, providing physical and emotional support to the patient during radiographic procedures, providing basic first aid and emergency care in the absence of or until a physician arrives.
- g) Function adequately under stressful situations related to technical and procedural standards of patient care situations.
- Hear well enough (average 30 decibels for both ears) to respond to directions or calls for help from individuals remote from the location of the student.
- Speak English clearly enough to explain and direct procedural information to patients, and to communicate with physicians, technical staff, and faculty. Students for which English is a second language may be required to complete a verbal communication assessment prior to entering the program.
- Calculate and select proper technical exposure factors according to the individual needs of the patient's condition and requirements of the procedure with speed and accuracy.
- k) View and evaluate the recorded images of a radiograph for the purpose of identifying porper patient positioning, accurate procedural sequencing, proper exposure (and/or "s" number), and other established technical qualities.

Real Estate

Business Administration Department Major S0512

This program prepares students for employment following graduation. Students wishing a Bachelor's degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses. The requirements for a degree in real estate include the eight classes needed prior to applying to take the Real Estate Broker License Exam as well as several additional classes designed to strengthen the skills needed to succeed in a career in real estate.

Requirements for the Major Required courses:

| Required co | ourses: | | |
|-------------|--|-----|--------|
| BUSR 50 | Real Estate Principles | 3.0 | CSU |
| BUSR 51 | Legal Aspects of Real Estate | 3.0 | |
| BUSR 52 | Real Estate Practice, or | 3.0 | |
| BUSR 52D | Real Estate Practice Work Experience | 3.0 | |
| BUSR 53 | Real Estate Finance | 3.0 | |
| BUSR 55 | Real Estate Economics | 3.0 | |
| BUSR 81 | Appraisal: Principles and Procedures | 3.5 | |
| CISB 15 | Microcomputer Applications | 4.0 | CSU,UC |
| PLUS | | | |
| Group A | | | |
| Select two | (2), three (3) or four (4) courses fro | om: | |
| BUSR 57 | Income Tax Aspects of Real Estate Investments | 3.0 | |
| BUSR 59 | Real Estate Property Management | 3.0 | |
| BUSR 60 | Real Estate Investment Planning | 3.0 | |
| BUSR 62 | Mortgage Loan Brokering and Lending | 3.0 | |
| BUSR 76 | Escrow Procedures I | 3.0 | |
| PLUS | | | |
| Group B | | | |
| | (0), one (1) or two (2) units from: | | |
| BUSA 7 | Principles of Accounting - Financial | 5.0 | CSU,UC |
| BUSA 11 | Fundamentals of Accounting | 3.0 | |
| BUSA 72 | Bookkeeping - Accounting | 5.0 | |
| BUSL 18 | Business Law | 3.0 | CSU,UC |
| BUSM 20 | Principles of Business | 3.0 | CSU,UC |
| BUSM 60 | Human Relations in Business | 3.0 | CSU |
| BUSM 66 | Small Business Management | 3.0 | CSU |
| BUSO 5 | Business English | 3.0 | |
| BUSO 25 | Business Communications | 3.0 | CSU |
| | | | |

- BUSO 26
 Oral Communications for Business3.0

 BUSS 35
 Professional Selling
 3.0
 CSU

 BUSS 36
 Principles of Marketing
 3.0
 CSU

 PSYC 1A
 Introduction to Psychology
 3.0
 CSU.UC
 - Total Units
 34.5 44.5

Real Estate Appraisal

Business Administration Department Major S0513

This program prepares students for employment following graduation. Students wishing a Bachelor's Degree (transfer program) should consult with an advisor to discuss transferability of courses.

Requirements for the Major *Required courses:*

| neganea co | | | |
|--------------|---|---------------|--------|
| BUSR 81 | Appraisal: Principles and Procedures | 3.5 | |
| BUSR 82 | Uniform Standards of Professional Appraisal Practice | 1.0 | |
| BUSR 83 | | 3.5 | |
| | Residential Appraisal | | |
| BUSR 84 | Residential Appraisal: Case Studie | 252.5 | |
| PLUS | | | |
| Select seven | (7) courses from: | | |
| BUSA 11 | Fundamentals of Accounting | 3.0 | |
| BUSR 50 | Real Estate Principles | 3.0 | CSU |
| BUSR 51 | Legal Aspects of Real Estate | 3.0 | |
| BUSR 53 | Real Estate Finance | 3.0 | |
| BUSR 55 | Real Estate Economics | 3.0 | |
| BUSR 57 | Income Tax Aspects of Real Estate Investments | 3.0 | |
| BUSR 59 | Real Estate Property Management | t 3.0 | |
| BUSR 76 | Escrow Procedures I | 3.0 | |
| CISB 15 | Microcomputer Applications | 4.0 | CSU,UC |
| INSP 70 | Elements of Construction | 3.0 | CSU |
| | Total Units | 31 . 5 | 32.5 |
| | | | |
| | | | |
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| | | | |

Registered Veterinary Technology Agricultural Sciences Department Major S0105

The program of courses in Agriculture is designed to enable students to prepare for a career in this essential and diverse profession. The department offers a comprehensive agricultural sciences program and is unique in that most courses provide hands-on experience designed to give the student a combination of practical skills and technical knowledge. Students who intend to transfer should check the lower division requirements in the catalog of the college or university which they plan to attend and also the semester and year in which courses are offered.

The following programs list all courses needed to satisfy major requirements. It is recommended that all students consult with the department chairperson or faculty advisor to file an educational plan. Students must file an educational plan with the Director of the Registered Veterinary Technology Program during the first year of study.

These programs are intended to prepare students for employment following graduation. Students desiring a Bachelor's Degree (transfer program) should consult with the department chairperson, counselor or advisor to discuss transferability of courses.

This degree is designed to prepare students for careers as Registered Veterinary Technicians who will work under the supervision of licensed private organizations including veterinary hospitals, research vivariums, animal shelters, and other animal care agencies. Students who satisfactorily complete the requirements of this program are eligible to take the State of California Certifying Examination for Registered Veterinary Technicians.

Students wishing to be admitted to the Registered Veterinary Technology program must meet with the Director of the Registered Veterinary Technology program at least two weeks prior to the beginning of the semester in which enrollment shall begin.

Requirements for the Major Reauired courses 1st year:

| AGAN 1 | Animal Science | 3.0 | CSU,UC |
|---------|-------------------------------|-----|--------|
| AGAN 2 | Animal Nutrition | 3.0 | CSU,UC |
| AGAN 51 | Animal Handling and Restraint | 3.0 | CSU |
| AGAN 94 | Animal Breeding | 3.0 | |
| AGHE 54 | Veterinary Office Procedures | 3.0 | |
| AGLI 96 | Animal Sanitation | 3.0 | CSU |
| | and Disease Control | | |

Required courses 2nd year:

| Required co | urses 2nd year: | | |
|--------------------|---|-------|--------|
| AGHE 60 | Medical Nursing and Animal Care | 4.0 | CSU |
| AGHE 61 | Surgical Nursing | 4.0 | CSU |
| AGHE 62A | Clinical Pathology | 4.0 | CSU |
| AGHE 62B | Clinical Pathology | 4.0 | CSU |
| AGHE 64 | Veterinary Pharmacology | 3.0 | CSU |
| AGHE 65 | Veterinary Radiography | 2.0 | CSU |
| AGHE 79 | Laboratory Animal Medicine and Care | 3.0 | CSU |
| AGHE 84A | Applied Animal Health Procedures or | 1.0 | |
| AGHE 84B | Applied Animal Health Procedures | 1.0 | |
| AGHE 85 | Seminar in Animal Health Technology | 1.0 | |
| AGHE 86 | Anatomy and Physiology of Domestic Animals | 4.0 | |
| PLUS | | | |
| Select four (| (4) units of work experience: | | |
| AGHE 83A | Work Experience in Animal Health | 1.0 - | - 2.0 |
| PLUS | | | |
| Select six (6, |) units from: | | |
| AGLI 12 | Exotic Animal Management | 3.0 | |
| AGLI 14 | Swine Production | 3.0 | |
| AGLI 16 | Horse Production | 4.0 | CSU,UC |
| AGLI 17 | Sheep Production | 3.0 | |
| AGLI 18 | Horse Ranch Management | 4.0 | CSU |
| AGLI 19 | Horse Hoof Care | 2.0 | CSU |
| AGLI 30 | Beef Production | 3.0 | CSU |
| AGPE 70 | Pet Shop Management | 3.0 | |
| AGPE 71 | Canine Management | 3.0 | |
| AGPE 72 | Feline Management | 3.0 | |
| AGPE 73 | Tropical and Coldwater Fish Management | 2.0 | |
| AGPE 74 | Reptile Management | 2.0 | |
| AGPE 76 | Aviculture - Cage and Aviary Birds | 3.0 | |
| | Total Units | 58.0 | |
| | | | |
| | | | |
| | | | |
| | | | |

| | atory Therapy ory Technology Department 205 | | | |
|--|---|------------------------|-------------|---|
| the Commi (COARC), is | atory Therapy Program, which is ac ttee on Accreditation for Respirato designed to train students to func r Therapists. | ry Ca | are | |
| involving a physiology | Therapy is the application of tech complete understanding of cardic and recognition of various pathole that alter the patient's ability to b | opuln ogica | nonary I | |
| compressed airways thi the therapi | g medical gases under pressure - i d air, oxygen, and other mixtures - rough the use of various kinds of e st, under the direction of the phys ed or ineffective respiratory system | to tl quip ician | ment, | |
| helpful in l equipment | nanical aptitude and manual dexte earning the operation of specialize .This includes diagnostic apparatu an in detecting cardiorespiratory d | ed s wh | ich aids | |
| | ments for the Major | | | |
| Required c | | | | |
| RESD 50 | Theory and Principles of Respiratory Therapy | 2.0 | CSU | |
| RESD 51A | Respiratory Therapy Science | 4.0 | CSU | |
| RESD 51B | Respiratory Therapy Science | 4.0 | CSU | |
| RESD 52 | Pulmonary Anatomy and Physiology | 3.0 | CSU | |
| RESD 53 | Cardiopulmonary Pathophysiology | 3.0 | CSU | |
| RESD 55 | Adult Respiratory Intensive Care | 3.0 | CSU | |
| RESD 56A | Techniques of Respiratory Therapy | 2.5 | CSU | |
| RESD 56B | Techniques of Respiratory Therapy | | CSU | |
| RESD 56C | Techniques of Respiratory Therapy | | CSU | |
| RESD 56D | Techniques of Respiratory Therapy | 6.0 | CSU | |
| RESD 57A | Special Procedures for Respiratory Care | 1.5 | CSU | |
| RESD 57B | Special Procedures for Respiratory Care | 1.5 | CSU | |
| RESD 58 | Neonatal Intensive Care | 3.0 | CSU | |
| RESD 59 | Respiratory Therapeutic Modalities | 3.0 | CSU | |
| RESD 60 | Comprehensive Pulmonary | 2.0 | CSU | |
| | Assessment | 2.0 | CSU | |
| RESD 61 | Current Issues in Respiratory Care | 3.0 | CSU | |
| | Total Units 5 | 6.0 | | |
| | | | | 1 |

Special Information

The completion of the Respiratory Therapy Program and receipt of a certificate documenting completion of required courses requires completion of the Associate Degree. The student may elect to pursue either the Associate in Science or Associate of Arts Degree.

All students entering the program must submit an educational plan showing the major course requirements with the general education requirements for the degree. To remain in the program, students must maintain a "C" or better grade in all courses.

Upon completion of the Respiratory Therapy requirements, the student is given a certificate documenting completion. This certification will permit the student to sit for all National Board for Respiratory Care (NBRC), Incorporated, examinations.

Entrance Requirements:

In addition to meeting Mt. San Antonio College's academic standards for admission, applicants must be in good standing and satisfy the following requirements:

- Applicant must be at least 18 years of age upon entrance into the program and must be a high school graduate or equivalent. Please provide copy of diploma as proof of high school completion.
- 2) File a college application and be accepted as a student at Mt. San Antonio College.
- Applicant must take the College placement exams before taking any of the prerequisite or respiratory therapy courses.

NOTE: Testing is administered by the Assessment Center located in the Student Services Center, Building 9B. You may contact them at (909) 594-5611, ext. 4265, to set up an appointment.

If you have taken English and math at another college, please provide college transcripts.

For students who possess a college degree, the college placement examination is not required. However, it will be necessary for the applicant to obtain two official copies of the college transcript showing the degree issued. One official transcript must be sent to the Respiratory Therapy Program Office and the other to the Admissions Office. If the degree was obtained at Mt. SAC, it is not necessary to request transcripts. Transcripts should be addressed as follows:

Mt. San Antonio College Technology and Health Division Respiratory Therapy Program 1100 North Grand Avenue Walnut CA 91789-1389 Submit an application for the Respiratory Therapy Program to the Technology and Health Division Office (Bldg. 28A, Room 101E), (909) 594-5611, ext. 4750. All applications are dated upon receipt.

It is highly recommended that students complete their general education requirements prior to entering the program.

Foreign Transcripts:

All coursework taken outside of the United States must be analyzed by a designated agency for foreign transcript evaluation. No foreign course work will be accepted without this evaluation. It is the sole responsibility of the applying student to get the evaluation completed before entry into the program. Information for transcript evaluation is available in the Technology and Health Division.

Selection Procedure:

Selection for the Respiratory Therapy program is on a first-come/ first-served basis. It is strongly recommended that the prerequisites are completed prior to entering the program. Completion is not, however, mandatory for acceptance.

A.S. Degree Requirements

All students entering the Respiratory Therapy Program MUST complete all the major course requirements and the general education requirements necessary to complete the Associate Degree before a certificate documenting completion in Respiratory Therapy will be given. This certificate will permit the student to sit for all National Board for Respiratory Care (NBRC), Incorporated, examinations.

Other Requirements:

All students will be required to complete a background check prior to entering the clinical education phase.

A physical examination, including specific immunizations, is required of all candidates prior to beginning classes. These requirements are in accordance with healthcare agency policy that insures that students are in good health and free from communicable disease and able to perform their training functions. Drug testing is required as a part of this physical examination. All Applicants are required to meet the Essential Functions for Success in the Respiratory Therapy Program.

Physical Demands:

 Perform prolonged, extensive, or considerable standing/walking, lifting, positioning, pushing, and/or transferring patients

- Possess the ability to perform fine motor movements with hands and fingers
- Possess the ability for extremely heavy effort (lift and carry at least 50 pounds or more)
- Perform considerable reaching, stooping, bending, kneeling, and crouching

Sensory Demands

- <u>Color vision</u>: ability to distinguish and identify colors (may be corrected with adaptive devices)
- *Distance vision:* ability to see clearly 20 feet or more
- <u>Depth perception</u>: ability to judge distance and space relationships
- *Near vision:* ability to see clearly 20 inches or less
- *Hearing*: able to recognize a full range of tones

Working Environment:

- May be exposed to infectious and contagious disease, without prior notification
- Regularly exposed to the risk of blood borne diseases
- Exposed to hazardous agents, body fluids and wastes
- Exposed to odorous chemicals and specimens
- Subject to hazards of flammable, explosive gases
- Subject to burns and cuts
- Contact with patients having different religious, culture, ethnicity, race, sexual orientation, psychological and physical disabilities, and under a wide variety of circumstances
- Handle emergency or crisis situations
- Subject to many interruptions
- Requires decisions/actions related to end of life issues
- Exposed to products containing latex

English Language Skills:

Although proficiency in English is not a criteria for admission into the Respiratory Therapy Program, students are encouraged to be able to speak, write, and read English to complete classes successfully and to ensure safety for themselves and others.

Sign Language/Interpreting Sign Language Department

Major S0801

The Mt. San Antonio College Interpreter Training Program is designed to prepare individuals for careers as Sign Language Interpreters. Interpreters are needed wherever communication happens between the hearing community and the Deaf and hard-of-hearing community. There are an endless number of settings in which this communication takes place. Interpreters are employed by school districts, cruiseship companies, corporations, government agencies, hospitals, colleges and universities, and a vast number of other organizations and private businesses.

Program Preparation: Preparation for the program includes fluency in American Sign Language demonstrated by the completion of SIGN 104, American Sign Language 4, (or the equivalent skill) and English fluency demonstrated by the completion of ENGL 1A.

National Certification: There are many specialties within the field of Sign Language Interpreting, but the focus of this program is on preparing the interpreter generalist. Although requiring some type of certification is becoming more common in California, there are still many job opportunities for the precertified interpreter.

Completing the certificate in Sign Language/Interpreting does not make one a "Certified Interpreter"; however, graduates of this program are encouraged to apply for National Interpreting Certification (NIC) through the Registry of Interpreters for the Deaf (RID) at www.rid.org.

Students who complete the required courses listed below and who also complete the graduation requirements of Mt. San Antonio College will be awarded the Associate of Science Degree in Sign Language/Interpreting.

Requirements for the Major *Required courses:*

| SIGN 105 | American Sign Language 5 | 4.0 | |
|----------|--|-----|--------|
| SIGN 108 | Fingerspelling | 2.0 | |
| SIGN 201 | Deaf Perspectives | 3.0 | |
| SIGN 202 | American Deaf Culture | 3.0 | CSU,UC |
| SIGN 210 | American Sign Language Structure | 3.0 | CSU,UC |
| SIGN 220 | Translation: American Sign Language/English | 3.0 | CSU |
| SIGN 223 | Principles of Interpreting | 3.0 | CSU |
| SIGN 225 | Ethical Decision Making for Interpreters | 2.0 | |
| | | | |

Interpreting 4.0 SIGN 231 SIGN 232 Advanced Interpreting 4.0 SIGN 239 Practicum 1.0 PLUS Select three (3) courses from: Special Projects 2.0 SIGN 99 in Sign Language/Interpreting **SIGN 238** Oral Transliteration 3.0 SIGN 240 Vocabulary Building 2.0 CSU for Interpreters SIGN 250 Interpreting with Classifiers 1.5

Coanitive Processina

for Interpreters

4.0

SIGN 227

 SIGN 250
 Video Interpreting
 1.5

 SL 2
 Linked Service Learning
 1.0

 Total Units
 40.0 - 43.0

Small Business Management Accounting and Management Department Maior S0508

This program is intended to prepare students for employment following graduation. Students wishing a Bachelor's Degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses.

Requirements for the Major

| Required courses: | | | | | | |
|--|---|------|--------|--|--|--|
| BUSA 7 | Principles of Accounting - Financial | 5.0 | CSU,UC | | | |
| BUSM 10 | Principles of Continuous Quality Improvement | 3.0 | | | | |
| BUSM 20 | Principles of Business | 3.0 | CSU,UC | | | |
| BUSM 60 | Human Relations in Business | 3.0 | CSU | | | |
| BUSM 61 | Business Organization and Management | 3.0 | CSU | | | |
| BUSM 62 | Human Resource Management | 3.0 | | | | |
| BUSM 66 | Small Business Management | 3.0 | CSU | | | |
| BUSS 36 | Principles of Marketing | 3.0 | CSU | | | |
| CISB 15 | Microcomputer Applications | 4.0 | CSU,UC | | | |
| | Total Units | 30.0 | | | | |
| Recommen | ded Electives: | | | | | |
| BUSM 81 | Work Experience in Business | | | | | |
| BUSM 85 | Special Issues in Business | | | | | |
| BUSS 85 | Special Issues in Marketing | | | | | |
| The Small Business Management faculty recommend that students complement their studies with selected elective courses chosen from the list above. Students should meet with a professor of Small Business Management to help them | | | | | | |
| | | | | | | |

determine which electives would best suit their career plans.

Television Production

Commercial and Entertainment Arts Major S0602

Students will gain experience in film-style production, remote and studio production. This course of study qualifies the student for an Associate of Science degree in television production, and is designed to prepare a student for an entry-level job in the industry in a variety of areas. This includes not only skills used in production, but also preproduction, editing, financial and legal affairs.

Requirements for the Major *Required courses:*

| R-TV 01 | Introduction to Broadcasting | 3.0 | CSU |
|-------------|--|------|-----|
| R-TV 14 | Media Aesthetics | | |
| R-TV 15 | Broadcast Business Practices | 3.0 | |
| R-TV 19A | Beginning Television Production | 3.0 | CSU |
| R-TV 19B | Advanced Television Production | 3.0 | CSU |
| R-TV 100A | Work Experience in Film and TV | 2.0 | |
| PLUS | | | |
| Select twel | ve (12) units from: | | |
| R-TV 05 | Radio-TV Newswriting | 3.0 | |
| R-TV 18 | Writing for Television/Film | 3.0 | CSU |
| R-TV 20 | Television News Production | 3.0 | |
| R-TV 21 | Remote Television Production and Engineering | 3.5 | |
| R-TV 22 | Editing for Film and Television | 3.0 | |
| | Total Units | 29.0 | |
| Recommen | ded Electives: | | |
| ANIM 115 | Storyboarding | | |
| R-TV 26 | Current Issues in Entertainment I | aw | |
| THTR 17 | Acting for Television | | |
| | | | |
| | | | |
| | | | |

Welding Air Conditioning, Water & Welding Technologies Major S0919

This program is designed to prepare the student for employment in the broad field of welding. It leads to occupations in manufacturing and repair and helps prepare the student for positions in supervision.

Courses in the welding curriculum prepare students for welding certification. The college is a testing agency for the City of Los Angeles and is authorized to administer the performance test for the Structural Welding Certificate. There is a \$50 charge for students and \$60 for non- students to take this test. Topics of the written portion of the test which is administered by the city are reviewed in various welding courses offered by the college.

This program is intended to prepare students for employment following graduation. Students desiring a Bachelor's Degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses.

| Requirements for the Major Required courses: | | | | | | |
|---|--|------------------|--|--|--|--|
| WELD 40 | Introduction to Welding | 2.0 CSU | | | | |
| WELD 50 | Oxyacetylene Welding | 2.0 | | | | |
| WELD 51 | Basic Electric Arc Welding | 2.0 | | | | |
| WELD 53A | Welding Metallurgy | 3.0 CSU | | | | |
| WELD 70A | Beginning Arc Welding | 3.0 | | | | |
| WELD 70B | Intermediate Arc Welding | 3.0 | | | | |
| WELD 70C | Certification for Welders | 3.0 | | | | |
| WELD 80 | Fabrication | 3.0 | | | | |
| | and Construction Welding | | | | | |
| | Total Units | 21.0 | | | | |
| Recommen | ded Electives: | | | | | |
| BUSM 61 | Business Organization and N | lanagement | | | | |
| EDT 11 | Technical Engineering Drawi | ng l | | | | |
| MFG 70 | Technical Mathematics - Manufacturing Application | S | | | | |
| WELD 30 | Metal Sculpture | | | | | |
| WELD 60 | Print Reading and Computat | ions for Welders | | | | |
| WELD 81 | Pipe and Tube Welding | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

ASSOCIATE OF ARTS DEGREES (A.A.)

Liberal Arts and Sciences with area of emphasis in one of the following: Business; Communication; Fine Arts; Humanities; Information Technology; Kinesiology and Wellness; Language Arts: Mathematics: Music: Natural Sciences: and Social & Behavioral Sciences

Mt. San Antonio College's Associate of Arts degrees are designed to meet the needs of students interested in graduating with a two-year college degree by studying in a specific area of emphasis. These students are not intending to pursue a specific occupational major, nor are they necessarily planning to transfer. However, careful educational planning with a counselor or an educational advisor will help ensure that, if a student subsequently decides to transfer at a later date to a four-year college or university, he or she would have a solid foundation in the transfer process. Transfer students may also become eligible for a Certificate of Achievement in CSU General Education Breadth or Intersegmental General Education Transfer Curriculum (IGETC) by completing requirements shown on pages 102-110 of this catalog.

To gualify for an Associate of Arts degree, students must complete all the graduation requirements as listed on page 64 of this catalog. In addition, students choose one of eleven "areas of emphasis" and complete the appropriate requirements as shown in this section. Courses listed within an area of emphasis may also be used to satisfy general education requirements, with additional elective courses chosen by the student to complete the 60-unit degree requirement. The printed degree and transcript notation will read "Associate of Arts in Liberal Arts and Sciences, Emphasis in (specific area)."

Note: Students wishing to transfer to the California State University system may be required to select additional General Education courses from either the CSU General Education pattern found on page 104 of this catalog or from the Intersegmental General Education Transfer Core Curriculum (IGETC) pattern listed on page 108 of this catalog.

Students wishing to transfer to the University of California system may be required to select additional General Education courses only from the Intersegmental General Education Transfer Core Curriculum (IGETC) pattern listed on page 108 of this catalog.

All students wishing to transfer are strongly advised to meet with a counselor or educational advisor to determine the most effective selection of general education courses to facilitate transfer to either the California State University system or to the University of California in specific majors.

| Area of Emphasis R | lequirements | BUSC 1AH | Principles of Economics - Macroeconomics - Honors | 3.0 |
|---|-------------------------|-------------|--|----------|
| (choose one) | | BUSC 1B | Principles of Economics - Microeconomics | 3.0 |
| Associate of Arts D | egree | | <u>or</u> | |
| in Liberal Arts and Emphasis in Business | | BUSC 1BH | Principles of Economics - Microeconomics - Honors | 3.0 |
| Degree A8981 | | CISB 15 | Microcomputer Applications | 4.0 |
| An emphasis in Business provi | des the student with an | | <u>or</u> | |
| understanding of business and | | COMP 12 | Office Computer Applications | 4.0 |
| Students will have knowledge | | | <u>or</u> | |
| functions and economic analy | | CISB 11 | Computer Information Systems | 3.5 |
| this degree students will be p | | Plus select | a minimum of three courses from | m the |
| job in the business world. | | following | which should be selected in cons | ultation |
| Core/Required Courses | | with a cou | nselor or educational advisor. | |
| BUSC 1A Principles of Econo | omics 3.0 | BUSO 25 | Business Communications | 3.0 |
| - Macroeconomics | ; | BUSM 20 | Principles of Business | 3.0 |
| <u>or</u> | | | - | |

| BUSA 7 | Principles of Accounting | 5.0 | SPCH 15 | Forensics |
|----------------------|---|-----------------|------------------------|---|
| | - Financial | | SPCH 16A | Forensics |
| BUSA 8 | Principles of Accounting | 5.0 | SPCH 16B | Forensics |
| | - Managerial | 2.0 | SPCH 16C | Forensics |
| BUSL 18 | Business Law | 3.0 | THTR 11 | Principles of Acting I |
| BUSC 17 | Applied Business Statistics | 3.0 | THTR 12 | Principles of Acting II |
| Elective Co | urse: | | | <u>or</u> |
| SPCH 7 | Intercultural Communication | 3.0 | Intercultur | al Track |
| | Total Units | 18.5 - 23.0 | (6 addition | al units selected from |
| | for Area of Emphasis | | SPCH 7 | Intercultural Communi (required course for this |
| | ate of Arts Degree ral Arts and Sciences | | SOC 20 | Sociology of Ethnic Rel or |
| Emphasis Degree A | s in Communication | | SOC 20H | Sociology of Ethnic Rel - Honors |
| | is in Communication provides the anding of communication strateg | | PHIL 15 | Major World Religions <u>or</u> |
| | ritical analysis as it relates to pul | | PHIL 15H | Major World Religions |
| interperson | al communication, and the intern a and society. In addition to the | relationship of | JOUR 107 | Race, Culture, Sex and Mass Media Image |
| | ation courses, students select eith | | LIT 3 | Multicultural Americar |
| Performand track. | e Studies or Intercultural Commu | inications | ANTH 5 | Principles of Cultural Anthropology |
| Core/Requi | red Courses (12 units) | | | <u>or</u> |
| SPCH 1A | Public Speaking | 3.0 | ANTH 22 | General Cultural Anthr |
| | <u>or</u> | | | Total Units |
| SPCH 1AH | Public Speaking - Honors | 3.0 | | for Area of Emphasi |
| SPCH 26 | Interpersonal Communication | 3.0 | | |
| | <u>or</u> | | | ate of Arts Deg |
| SPCH 26H | Interpersonal Communication | 3.0 | | ral Arts and Sci |
| | - Honors | 2.0 | Emphase Degree A | s in Fine Arts |
| JOUR 100 | Mass Media and Society | 3.0 | - | |
| SPCH 1B | Intermediate Public Speaking | 3.0 | | is in Fine Arts provides ling of the practices and |
| SPCH 20 | <u>or</u> Argumentation and Debate | 3.0 | | nporary two and three- |
| JI CII 20 | | 5.0 | | oduction to the history |
| SPCH 20H | Argumentation and Debate - Honors | 3.0 | addition to electives. | the foundation courses |
| PLUS | | | Core/Requi | ired Courses (24 units) |
| | e (1) of the following tracks: | | ARTD 15A | Drawing: Beginning |
| | ce Studies Track | | ARTD 17A | Drawing: Life |
| | al units selected from the follow | ving): | ARTD 20 | Design: Two Dimensio |
| SPCH 3 | Voice and Diction | 3.0 | ARTD 21 | Design: Color and Com |
| SPCH 4 | Oral Interpretation of Literature | 3.0 | ARTS 22 | Design: Three-Dimensi |
| SPCH 5 | Readers Theater | 3.0 | ARTD 25A | Painting: Beginning |
| SPCH 1B | Intermediate Public Speaking (if not used as a core class) | 3.0 | AHIS 4 | History of Western Art: Prehistoric Through Go |
| | | | | |

from the following): nmunication 3.0 for this track) nic Relations 3.0 nic Relations 3.0 3.0 iaions igions - Honors 3.0 3.0 Images erican Literature 3.0 ural 3.0 Anthropology 3.0 18.0 phasis

2.0

2.0

2.0

2.0

3.0

3.0

Degree Sciences

ovides the student with an es and theories of traditional hree-dimensional studio arts istory of western art. In ourses, students select studio

nits)

| ARTD 15A | Drawing: Beginning | 3.0 |
|----------|-------------------------------|-----|
| ARTD 17A | Drawing: Life | 3.0 |
| ARTD 20 | Design: Two Dimensional | 3.0 |
| ARTD 21 | Design: Color and Composition | 3.0 |
| ARTS 22 | Design: Three-Dimensional | 3.0 |
| ARTD 25A | Painting: Beginning | 3.0 |
| AHIS 4 | History of Western Art: | 3.0 |
| | Prehistoric Through Gothic | |
| | | |

Programs Leading to an Associates Degree

| AHIS 4H | <u>or</u> History of Western Art: | 3.0 |
|--|---|--------------|
| | Prehistoric Through Gothic - Hon | |
| AHIS 5 | History of Western Art: | 3.0 |
| | Renaissance Through Modern | |
| | <u>or</u> | |
| AHIS 5H | History of Western Art: | 3.0 |
| | Renaissance Through Modern - H | |
| | | 24.0 |
| | for Area of Emphasis | |
| | nded two studio electives | |
| | lected from the following): | 2.0 |
| ANIM 101 | Drawing - Gesture and Figure | 3.0 |
| ARTB 14 | Basic Studio Arts | 3.0 |
| ARTC 165 | Illustration | 3.0 |
| ARTC 70 | Computer Graphics: Introduction | |
| ARTD 16 | Drawing: Perspective | 3.0 |
| ARTD 15B | Drawing: Beginning | 3.0 |
| ARTD 17B ARTD 27 | Drawing: Life | 3.0 |
| | Painting: Watercolor | 3.0 |
| ARTD 43 | Printmaking: Silk-screen and Intaglio | 3.0 |
| ARTD 44 | Printmaking: Relief and Lithography | 3.0 |
| ARTG 20 | Art, Artists and Society | 3.0 |
| ARTG 21A | Introduction to Exhibition Production | 3.0 |
| ARTS 30A | Ceramics: Beginning | 3.0 |
| ARTS 33 | Ceramics: Hand Construction | 3.0 |
| ARTS 40A | Sculpture: Beginning | 3.0 |
| ARTS 41A | Sculpture: Life | 3.0 |
| PHOT 10 | Basic Digital | 3.0 |
| | and Film Photography | |
| in Libe Emphasi Degree <i>F</i> | | |
| | sis in Humanities provides the stu | |
| | ling of the interrelationship betweet | |
| | story, music, literature and the dra ophical and political thought. This | |
| | thens the understanding of other | |
| | e study of a foreign language. | |
| - | tal of 18 units choosing courses f | rom at least |
| | llowing 7 categories: | • |
| <i>y or the ro</i> | | |
| Music: | | |

| MUS 11B | Music Literature Survey | 3.0 |
|-------------------|--|------------|
| MUS 12 | History of Jazz | 3.0 |
| MUS 13 | Introduction to Music Appreciation | 3.0 |
| MUS 14A | World Music | 3.0 |
| MUS 14B | American Folk Music | 3.0 |
| MUS 15 | Rock Music History and Appreciation | 3.0 |
| Art History: | | |
| AHIS 3 | History of Women and Gender in Art <u>or</u> | 3.0 |
| AHIS 3H | History of Women and Gender in Art - Honors | 3.0 |
| AHIS 4 | History of Western Art: Prehistoric Through Gothic | 3.0 |
| AHIS 4H | <u>or</u> History of Western Art: | 3.0 |
| АПІ) 4 П | Prehistoric Through Gothic - Hono | |
| AHIS 5 | History of Western Art: | 3.0 |
| | Renaissance Through Modern | |
| | <u>or</u> | |
| AHIS 5H | History of Western Art: | 3.0 |
| | Renaissance Through Modern - Ho | |
| AHIS 6 | History of Modern Art | 3.0 |
| | <u>Oľ</u> Llistowy of Madaya Art. Hanava | 2.0 |
| AHIS 6H | History of Modern Art - Honors | 3.0 |
| AHIS 9 Ahis 10 | History of Asian Art | 3.0 3.0 |
| | A History of Greek and Roman Art and Architecture | 5.0 |
| AHIS 11 | History of African, Oceanic and Native American Art | 3.0 |
| AHIS 12 | History of Precolumbian Art or | 3.0 |
| AHIS 12H | History of Precolumbian Art - Honors | 3.0 |
| Philosophy | and Political Science: | |
| PHIL 12 | Ethics or | 3.0 |
| PHIL 12H | Ethics - Honors | 3.0 |
| PHIL 20A | History of Western Philosophy | 3.0 |
| PHIL 20B | History of Western Philosophy | 3.0 |
| POLI 5 | Political Science Theory | 3.0 |
| POLI 9 | Introduction to International Relations | 3.0 |
| English and | Dramatic Arts Literatures: | |
| FRCH 60 | French Culture Through Cinema | 3.0 |
| ITAL 60 | Italian Culture Through Cinema | 3.0 |

| LIT 10 | Survey of Shakespeare | 3.0 |
|-------------|--|-----|
| LIT 11A | World Literature | 3.0 |
| LIT 11B | World Literature | 3.0 |
| LIT 15 | Introduction to Cinema | 3.0 |
| SPCH 4 | Oral Interpretation of Literature | 3.0 |
| THTR 10 | History of Theater Arts | 3.0 |
| Reliaion au | nd Literatures: | |
| PHIL 15 | Major World Religions | 3.0 |
| | or | 5.0 |
| PHIL 15H | Major World Religions - Honors | 3.0 |
| LIT 36 | Introduction to Mythology | 3.0 |
| LIT 46 | The Bible as Literature: | 3.0 |
| | Old Testament | 5.0 |
| LIT 47 | The Bible as Literature: | 3.0 |
| | New Testament | 510 |
| History: | | |
| HIST 3 | History of World Civilization | 3.0 |
| | or | 5.0 |
| HIST 3H | <u>or</u> History of World Civilization | 3.0 |
| | - Honors | 5.0 |
| HIST 4 | History of World Civilization | 3.0 |
| | Or | 5.0 |
| HIST 4H | History of World Civilization | 3.0 |
| | - Honors | 510 |
| HIST 10 | History of Asia | 3.0 |
| HIST 11 | History of Asia | 3.0 |
| HIST 16 | The Wild West | 3.0 |
| | - A History, 1800-1890 | |
| HIST 19 | History of Mexico | 3.0 |
| HIST 35 | History of Africa | 3.0 |
| HIST 44 | History of Native Americans | 3.0 |
| Foreign La | nguages: | |
| CHIN 2 | Continuing Elementary Chinese | 4.0 |
| | and | |
| CHIN 3 | Intermediate Chinese | 4.0 |
| | or | |
| FRCH 2 | Continuing Elementary French | 4.0 |
| | and | |
| FRCH 3 | Intermediate French | 4.0 |
| | or | |
| GERM 2 | Continuing Elementary German | 4.0 |
| | and | |
| GERM 3 | Intermediate German | 4.0 |
| | or | |
| ITAL 2 | <u>Continuing Elementary Italian</u> | 4.0 |
| | and | |
| ITAL 3 | Intermediate Italian | 4.0 |
| | | |

| | or | | |
|---|--|---|--------------------|
| JAPN 2 | Continuing Elementary Japanese | 4.0 | |
| | and | | |
| JAPN 3 | Intermediate Japanese | 4.0 | |
| | <u>or</u> | | |
| SPAN 11 | Spanish for the Spanish Speaking | g 4.0 | |
| | <u>and</u> | | |
| SPAN 12 | Continuing Spanish | 4.0 | |
| | for the Spanish Speaking | | |
| SPAN 2 | <u>or</u> Continuing Elementary Spanish | 4.0 | |
| | and | ч.0 | |
| SPAN 3 | Intermediate Spanish | 4.0 | |
| | | 18.0 | - 28.0 |
| | for Area of Emphasis | | |
| Recomme | nded electives: | | |
| HUMA 1 | The Humanities | 3.0 | |
| STDY 100 | Student Achievement | 3.0 | |
| | and Fundamentals of Learning | | |
| | | | |
| | ate of Arts Degree | | |
| | ral Arts and Sciences | | |
| - | s in Information Technology | у | |
| Degree A8985 | | | |
| - | | | |
| An empha | sis in Information Technology prov | | |
| An empha student wi | sis in Information Technology prov ith an understanding of software o | devel | opment, |
| An empha student wi | sis in Information Technology prov ith an understanding of software of echnologies, operating systems, no | devel | opment, |
| An empha student wi database t network se | sis in Information Technology prov ith an understanding of software (echnologies, operating systems, ne ecurity. | devel | opment, |
| An empha student wi database t network se Informatio | sis in Information Technology prov ith an understanding of software of echnologies, operating systems, ne ecurity. on Technology Basics | devel | opment, |
| An empha student wi database t network se Informatio | sis in Information Technology prov ith an understanding of software of echnologies, operating systems, ne ecurity. on Technology Basics its from the following): | devel | opment, |
| An empha student wi database t network se Informatio (3.5 - 4 un | sis in Information Technology prov th an understanding of software of echnologies, operating systems, ne ecurity. on Technology Basics its from the following): Computer Information Systems | devel etwor | opment, |
| An empha student wi database t network so <i>Informatio</i> (3.5 - 4 un CISB 11 | sis in Information Technology prov ith an understanding of software of echnologies, operating systems, ne ecurity. on Technology Basics its from the following): | develo etwor 3.5 | opment, |
| An empha student wi database t network se <i>Informatie</i> (3.5 - 4 un CISB 11 CISB 15 COMP 12 | sis in Information Technology prov th an understanding of software of echnologies, operating systems, ne ecurity. on Technology Basics its from the following): Computer Information Systems Microcomputer Applications | develo etwor 3.5 4.0 | opment, |
| An empha student wi database t network se <i>Informatie</i> (3.5 - 4 un CISB 11 CISB 15 COMP 12 Software 1 | sis in Information Technology prov ith an understanding of software of echnologies, operating systems, ne ecurity. on Technology Basics its from the following): Computer Information Systems Microcomputer Applications Office Computer Applications | develo etwor 3.5 4.0 | opment, |
| An empha student wi database t network se <i>Informatie</i> (3.5 - 4 un CISB 11 CISB 15 COMP 12 Software 1 | sis in Information Technology prov ith an understanding of software of echnologies, operating systems, ne ecurity. on Technology Basics its from the following): Computer Information Systems Microcomputer Applications Office Computer Applications Development | develo etwor 3.5 4.0 | opment, |
| An empha student wi database t network se <i>Informatic</i> (3.5 - 4 un CISB 11 CISB 15 COMP 12 Software I (4 units se | sis in Information Technology prov th an understanding of software of echnologies, operating systems, ne ecurity. on Technology Basics its from the following): Computer Information Systems Microcomputer Applications Office Computer Applications Development lected from the following): | 3.5 4.0 4.0 | opment, |
| An empha student wi database t network se <i>Informatic</i> (3.5 - 4 un CISB 11 CISB 15 COMP 12 Software 1 (4 units se CISP 11 CISP 21 CISP 31 | sis in Information Technology prov th an understanding of software of echnologies, operating systems, ne ecurity. on Technology Basics its from the following): Computer Information Systems Microcomputer Applications Office Computer Applications Development lected from the following): Programming in Visual Basic Programming in Java Programming in C++ | 3.5 4.0 4.0 | opment, |
| An empha student wi database t network se <i>Informatic</i> (3.5 - 4 un CISB 11 CISB 15 COMP 12 Software 1 (4 units se CISP 11 CISP 21 | sis in Information Technology prov th an understanding of software of echnologies, operating systems, ne ecurity. on Technology Basics its from the following): Computer Information Systems Microcomputer Applications Office Computer Applications Office Computer Applications Development Jected from the following): Programming in Visual Basic Programming in Java Programming in C++ Programming in C++ | 3.5 4.0 4.0 4.0 | opment, |
| An empha student wi database t network se <i>Informatic</i> (<i>3.5 - 4 un</i> CISB 11 CISB 15 COMP 12 <i>Software I</i> (<i>4 units se</i> CISP 11 CISP 21 CISP 31 | sis in Information Technology prov th an understanding of software of echnologies, operating systems, ne ecurity. on Technology Basics its from the following): Computer Information Systems Microcomputer Applications Office Computer Applications Office Computer Applications Development Jected from the following): Programming in Visual Basic Programming in Java Programming in C++ Programming in C# Secure Client Side | 3.5 4.0 4.0 4.0 4.0 | opment, |
| An empha student wi database t network se <i>Informatii</i> (<i>3.5 - 4 un</i> CISB 11 CISB 15 COMP 12 <i>Software I</i> (<i>4 units se</i> CISP 11 CISP 21 CISP 31 CISP 41 CISP 41 CISW 21 | sis in Information Technology prov th an understanding of software of echnologies, operating systems, ne ecurity. on Technology Basics its from the following): Computer Information Systems Microcomputer Applications Office Computer Applications Office Computer Applications Development Jected from the following): Programming in Visual Basic Programming in Java Programming in C++ Programming in C# Secure Client Side Web Programming | 3.5 4.0 4.0 4.0 4.0 4.0 4.0 | opment, ks, and |
| An empha student wi database t network se <i>Informatii</i> (<i>3.5 - 4 un</i> CISB 11 CISB 15 COMP 12 <i>Software I</i> (<i>4 units se</i> CISP 11 CISP 21 CISP 31 CISP 41 | sis in Information Technology prov th an understanding of software of echnologies, operating systems, ne ecurity. on Technology Basics its from the following): Computer Information Systems Microcomputer Applications Office Computer Applications Office Computer Applications Development Jected from the following): Programming in Visual Basic Programming in Java Programming in C# Secure Client Side Web Programming Secure Server Side | 3.5 4.0 4.0 4.0 4.0 4.0 4.0 | opment, ks, and |
| An empha student wi database t network se <i>Informatii</i> (<i>3.5 - 4 un</i> CISB 11 CISB 15 COMP 12 <i>Software</i> 1 (<i>4 units se</i> CISP 11 CISP 21 CISP 21 CISP 31 CISP 41 CISW 21 CISW 24 | sis in Information Technology prov th an understanding of software of echnologies, operating systems, ne ecurity. on Technology Basics its from the following): Computer Information Systems Microcomputer Applications Office Computer Applications Development Jected from the following): Programming in Visual Basic Programming in Java Programming in C++ Programming in C# Secure Client Side Web Programming Secure Server Side Web Programming | 3.5 4.0 4.0 4.0 4.0 4.0 4.0 | opment, ks, and |
| An empha student wi database t network se <i>Informatii</i> (<i>3.5 - 4 un</i> CISB 11 CISB 15 COMP 12 <i>Software I</i> (<i>4 units se</i> CISP 11 CISP 21 CISP 31 CISP 41 CISP 41 CISW 24 <i>Database</i> | sis in Information Technology prov th an understanding of software of echnologies, operating systems, ne ecurity. on Technology Basics its from the following): Computer Information Systems Microcomputer Applications Office Computer Applications Development Jected from the following): Programming in Visual Basic Programming in Java Programming in C++ Programming in C# Secure Client Side Web Programming Secure Server Side Web Programming Technology | 3.5 4.0 4.0 4.0 4.0 4.0 4.0 | opment, ks, and |
| An empha student wi database t network so <i>Informatii</i> (<i>3.5 - 4 un</i> CISB 11 CISB 15 COMP 12 <i>Software</i> 1 (<i>4 units se</i> CISP 11 CISP 21 CISP 21 CISP 21 CISP 21 CISP 21 CISP 21 CISW 24 <i>Database</i> (<i>4 units se</i> | sis in Information Technology prov th an understanding of software of echnologies, operating systems, ne ecurity. In Technology Basics its from the following): Computer Information Systems Microcomputer Applications Office Computer Applications Development Iected from the following): Programming in Visual Basic Programming in Sua Programming in C++ Programming in C# Secure Client Side Web Programming Secure Server Side Web Programming Secure Server Side Web Programming Secure Server Side Web Programming | 3.5 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 | opment, ks, and |
| An empha student wi database t network se <i>Informatii</i> (<i>3.5 - 4 un</i> CISB 11 CISB 15 COMP 12 <i>Software I</i> (<i>4 units se</i> CISP 11 CISP 21 CISP 31 CISP 41 CISP 41 CISW 24 <i>Database</i> | sis in Information Technology prov th an understanding of software of echnologies, operating systems, ne ecurity. on Technology Basics its from the following): Computer Information Systems Microcomputer Applications Office Computer Applications Development Jected from the following): Programming in Visual Basic Programming in Java Programming in C++ Programming in C# Secure Client Side Web Programming Secure Server Side Web Programming Technology | 3.5 4.0 4.0 4.0 4.0 4.0 4.0 | opment, ks, and |

Programs Leading to an Associates Degree

| CISD 21 | SQL Server | 4.0 |
|--------------|---|-------------|
| CISD 31 | Database Management | 4.0 |
| Operating : | Systems and Networking | |
| (4 units sel | ected from the following): | |
| CISN 11 | Telecommunications/Networkin | g 4.0 |
| CISN 21 | Windows Operating System | 4.0 |
| CISN 31 | Linux Operating System | 4.0 |
| Security (4 | units selected from the followin | ıg): |
| CISS 13 | Principles of Information | 4.0 |
| | Systems Security | |
| | Total Units | 19.5 – 20.0 |
| | for Area of Emphasis | |
| Recommen | ded Electives: | |
| CISM 11 | Systems Analysis and Design | 3.5 |
| COMP 20 | Word for the Business Professional | 4.0 |
| COMP 50 | Desktop Presentations using PowerPoint | 4.0 |
| BUSA 7 | Principles of Accounting - Financial | 5.0 |
| BUSM 20 | Principles of Business | 3.0 |
| BUSM 60 | Human Relations in Business | 3.0 |
| BUSO 25 | Business Communications | 3.0 |
| BUSS 36 | Principles of Marketing | 3.0 |
| SL 2 | Service Learning in Networking | 1.0 |
| SPCH 26 | Interpersonal Communication or | 3.0 |
| SPCH 26H | | 3.0 |
| STDY 100 | Student Achievement and Fundamentals of Learning | 3.0 |

Associate of Arts Degree in Liberal Arts and Sciences Emphasis in Kinesiology and Wellness Degree A8986

An emphasis in Kinesiology and Wellness provides the student with an understanding of physical education, health promotion, and the mechanics of human bodily movement. In addition to the foundational physical education and movement courses, students select courses from a scientific and nutrition and a behavioral development and diversity cluster.

Cluster 1: Physical Education and Movement(minimum of 6 units selected from the following):PE 3First Aid and CPR3.0

| | or | |
|----------|---|--------|
| PE 5 | <u>Advanced First Aid/CPR/</u> | 3.0 |
| | Emergency Response | 5.0 |
| PE 13 | Sports Officiating | 3.0 |
| PE 17 | Introduction to Physical Educatio | |
| PE 19 | Introduction to Care/ | 3.0 |
| | Prevention of Activity/Sports-Rel | |
| PE 34 | Fitness for Living | 3.0 |
| PE 39 | Techniques of Fitness Testing | 2.0 |
| PE 44 | Theory of Coaching | 3.0 |
| DN-T 18 | Introduction to Dance | 3.0 |
| DN-T 20 | History and Appreciation of Danc | |
| | Scientific and Nutrition Backgrou | |
| | of 3 units selected from the follo | |
| | | |
| ANAT 10A | Introductory Human Anatomy | 4.0 |
| | <u>Or</u> | 5.0 |
| ANAT 35 | Human Anatomy | 5.0 |
| ANAT 10B | Introductory Human Physiology | 4.0 |
| | <u>or</u> | 5.0 |
| ANAT 36 | Human Physiology | 5.0 |
| CHEM 10 | Chemistry for Allied Health Majors | 4.0 |
| | <u>or</u> | |
| CHEM 40 | Introduction to General Chemistry | 4.0 |
| MICR 1 | Principles of Microbiology | 5.0 |
| | <u>or</u> | |
| MICR 22 | Microbiology | 4.0 |
| PHYS 1 | Physics | 4.0 |
| | <u>or</u> | |
| PHYS 2AG | General Physics | 4.0 |
| PSYC 1B | Biological Psychology | 3.0 |
| BIOL 1 | General Biology | 4.0 |
| BIOL 5 | Contemporary Health Issues | 3.0 |
| | <u>or</u> | |
| BIOL 13 | Human Reproduction, Development and Aging | 3.0 |
| NF 10 | Nutrition for Personal Health and Wellness | 3.0 |
| | <u>or</u> | |
| NF 25 | Essentials of Nutrition | 3.0 |
| | Behavioral Development and Dive | |
| (minimum | of 3 units selected from the follo | wing): |
| PSYC 1A | Introduction to Psychology | 3.0 |
| PSYC 26 | Psychology of Sexuality | 3.0 |
| PSYC 3 | Introduction to Research | 4.0 |
| | Methods in Psychology | |

| PSYC 17 | Introduction to Human Services | 3.0 | SI |
|-----------------|---|----------------|---------------|
| PSYC 33 | Psychology for Effective Living | 3.0 | |
| SOC 1 | Sociology | 3.0 | S1 |
| SOC 1H | Sociology - Honors | 3.0 | |
| SOC 2 | Sociology | 3.0 | La |
| SOC 2H | Sociology - Honors | 3.0 | (n |
| SOC 20 | Sociology of Ethnic Relations | 3.0 | SF |
| SOC 20H | Sociology of Ethnic Relations | 3.0 | SF |
| 01111 2 | - Honors | 2.0 | SF |
| COUN 2 | College Success Strategies | 3.0 | SF |
| COUN 5 | Career/Life Planning | 3.0 | SF |
| | onal units taken from any cours | es in Clusters | SF |
| 1-3 above i | for a total of at least 18 units. | | SF |
| | Total Units | 18.0 | SF |
| | for Area of Emphasis | | 10 |
| | ecommended: | | SF |
| | ho are getting the AA degree wi | | SF |
| | n Kinesiology and Wellness are er | | SF |
| | mum of three activity courses in | | FF |
| | /DANCE areas: PE-A (Aquatics); P | | FF |
| | dual Sports); PE-S (Team Sports); | DNCE | FF |
| (Dance). | | | FF |
| | | | FF |
| | ate of Arts Degree | | FF |
| | ral Arts and Sciences | | FF |
| | s in Language Arts | | FF |
| Degree A | 8987 | | FF |
| | is in Language Arts provides the | | IT. |
| | anding of the acquisition of lang | | IT. |
| | ading, writing, listening, and spea ironment. In addition to the fou | | IT. |
| | equisition courses, students select | | IT |
| | t will strengthen their individual | | IT |
| | n Language Arts. | | IT |
| _ Language / | | | |
| | 9 units selected from the follow | ina): | |
| CHLD 51 | Early Literacy | 3.0 | |
| | in Child Development | 510 | G |
| ENGL 1C | Critical Thinking and Writing | 4.0 | G |
| | <u>or</u> | | G |
| PHIL 9 | Critical Thinking | 3.0 | C |
| | and Logical Writing | | C |
| ENGL 81 | Language Acquisition | 3.0 | |
| READ 100 | Analysis and Critical Reading | 3.0 | Cł |
| READ 110 | Reading Tutoring for Elementary | | JA JA |
| | Students Through Service Learni | ng | JA JA |
| | | | ^{JP} |
| | | | |

| | SIGN 210 | American Sign Language Structure | 3.0 |
|------|----------|--|-----|
| | STDY 100 | Student Achievement | 3.0 |
| | | and Fundamentals of Learning | |
| | | rts and Diversity | |
| | | 6 units selected from the followin | - |
| | SPAN 1 | Elementary Spanish | 4.0 |
| | SPAN 2 | Continuing Elementary Spanish | 4.0 |
| | SPAN 3 | Intermediate Spanish | 4.0 |
| | SPAN 4 | Continuing Intermediate Spanish | |
| | SPAN 5 | Advanced Spanish | 4.0 |
| ers | SPAN 6 | Continuing Advanced Spanish | 4.0 |
| | SPAN 11 | Spanish for the Spanish Speaking | 4.0 |
| | SPAN 12 | Continuing Spanish for the Spanish Speaking | 4.0 |
| | SPAN 25 | Spanish Literature | 3.0 |
| ± | SPAN 53 | Conversational Spanish | 3.0 |
| to | SPAN 54 | Conversational Spanish | 3.0 |
| ree | FRCH 1 | Elementary French | 4.0 |
| is); | FRCH 2 | Continuing Elementary French | 4.0 |
| | FRCH 3 | Intermediate French | 4.0 |
| | FRCH 4 | Continuing Intermediate French | 4.0 |
| - | FRCH 5 | Advanced French | 4.0 |
| | FRCH 6 | Continuing Advanced French | 4.0 |
| | FRCH 52 | Conversational French | 3.0 |
| | FRCH 53 | Continuing Conversational French | 3.0 |
| | FRCH 54 | Advanced Conversational French | 3.0 |
| ith | ITAL 1 | Elementary Italian | 4.0 |
| a | ITAL 2 | Continuing Elementary Italian | 4.0 |
| in a | ITAL 3 | Intermediate Italian | 4.0 |
| | ITAL 4 | Continuing Intermediate Italian | 4.0 |
| and | ITAL 5 | Advanced Italian | 4.0 |
| | ITAL 6 | Continuing Advanced Italian | 4.0 |
| | ITAL 52 | Conversational Italian | 3.0 |
| | ITAL 53 | Continuing Conversational Italian | 3.0 |
| | ITAL 54 | Advanced Conversational Italian | 3.0 |
| | GERM 1 | Elementary German | 4.0 |
| | GERM 2 | Continuing Elementary German | 4.0 |
| | GERM 3 | Intermediate German | 4.0 |
| | CHIN 1 | Elementary Chinese | 4.0 |
| | CHIN 2 | Continuing Elementary Chinese | 4.0 |
| | CHIN 3 | Intermediate Chinese | 4.0 |
| | CHIN 4 | Continuing Intermediate Chinese | |
| | JAPN 1 | Elementary Japanese | 4.0 |
| | JAPN 2 | Continuing Elementary Japanese | |
| | JAPN 3 | Intermediate Japanese | 4.0 |
| 1 | | | |

| JAPN 4 | Continuing Intermediate Japane | |
|------------------|--|------------|
| JAPN 5 | Advanced Japanese | 4.0 |
| LATN 1 | Elementary Latin | 4.0 |
| LATN 2 | Continuing Elementary Latin | 4.0 |
| ARAB 1 | Elementary Arabic | 4.0 |
| ARAB 2 | Continuing Elementary Arabic | 4.0 |
| SIGN 101 | American Sign Language 1 | 4.0 |
| SIGN 102 | American Sign Language 2 | 4.0 |
| SIGN 103 | American Sign Language 3 | 4.0 |
| SIGN 104 | American Sign Language 4 | 4.0 |
| SIGN 105 | American Sign Language 5 | 4.0 |
| LIT 3 | Multicultural American Literatur | e 3.0 |
| LIT 11A | World Literature | 3.0 |
| | or | |
| LIT 11B | World Litera2ture | 3.0 |
| LIT 20 | African American Literature | 3.0 |
| LIT 25 | Contemporary Mexican | 3.0 |
| | American Literature | 5.0 |
| LIT 33 | Images of Women in Literature | 3.0 |
| CHLD 50 | Multicultural Education: | 3.0 |
| | Anti-Bias Perspective | |
| Personal Op | otions | |
| (minimum . | 3 units selected from the follow | ing): |
| ENGL 1B | English - Introduction to Literary Types | 3.0 |
| | <u>or</u> | |
| ENGL 1BH | English - Introduction | 3.0 |
| | to Literary Types - Honors | |
| ENGL 8A | Creative Writing - Fiction | 3.0 |
| ENGL 8B | Creative Writing - Poetry | 3.0 |
| ENGL 9 | Writing the Personal Journal | 3.0 |
| JOUR 101 | Beginning News Writing | 3.0 |
| | <u>or</u> | |
| JOUR 102 | Intermediate News Writing | 3.0 |
| JOUR 108 | Writing for Public Relations | 3.0 |
| LIT 1 | Early American Literature | 3.0 |
| | <u>or</u> | |
| LIT 2 | Modern American Literature | 3.0 |
| LIT 6A | Survey of English Literature | 3.0 |
| | <u>or</u> | |
| LIT 6B | Survey of English Literature | 3.0 |
| | Children's Literature | 3.0 |
| LIT 40 | | |
| LIT 40 SPCH 4 | Oral Interpretation of Literature | 3.0 |
| | | 3.0 3.0 |
| SPCH 4 | Oral Interpretation of Literature | |
| SPCH 4 | Oral Interpretation of Literature Language Arts and Art Media | |

| Associate of Arts Degree in Liberal Arts and Sciences Emphasis in Mathematics Degree A8989 | | | | |
|---|---|--------------|--|--|
| an understa addition to may select | An emphasis in Mathematics provides the student with an understanding of college level mathematics. In addition to the foundational calculus courses, students may select from computer science programming options. | | | |
| Core/Requi | | | | |
| | 18 units selected from the follow | ving with at | | |
| | SCI courses): | 2.0 | | |
| MATH 130 | College Algebra | 3.0 | | |
| MATH 140 MATH 150 | Calculus for Business | 4.0 3.0 | | |
| MATH 150 MATH 160 | Trigonometry Precalculus Mathematics | 5.0 4.0 | | |
| MATH 160 MATH 180 | Calculus and Analytic Geometry | 4.0 4.0 | | |
| MATH 180 MATH 181 | Calculus and Analytic Geometry | 4.0 5.0 | | |
| MATH 280 | Calculus and Analytic Geometry | 4.0 | | |
| MATH 285 | Linear Algebra | 5.0 | | |
| MATTI 205 | and Differential Equations | 5.0 | | |
| CSCI 110 | Fundamentals | 3.5 | | |
| | of Computer Science | | | |
| CSCI 140 | C++ Language and Object Development | 4.0 | | |
| CSCI 145 | Java Language | 4.0 | | |
| coci i io | and Object Oriented Programmin | | | |
| | Total Units | 18 Units | | |
| | for Area of Emphasis | | | |
| Recommen | ded Electives: | | | |
| MATH 100 | Survey of College Mathematics | 3.0 | | |
| MATH 110 | Elementary Statistics | 3.0 | | |
| | <u>or</u> | | | |
| MATH 110H | Elementary Statistics - Honors | 3.0 | | |
| MATH 245 | A Transition | 3.0 | | |
| | to Advanced Mathematics | | | |
| MATH 120 | Finite Mathematics | 3.0 | | |
| CHEM 50 | General Chemistry I <u>or</u> | 5.0 | | |
| CHEM 50H | General Chemistry I - Honors | 5.0 | | |
| CHEM 51 | General Chemistry II | 5.0 | | |
| PHYS 4A | Engineering Physics | 5.0 | | |
| PHYS 4B | Engineering Physics | 5.0 | | |
| PHYS 4C | Engineering Physics | 5.0 | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Associate of Arts Degree in Liberal Arts and Sciences **Emphasis in Music** Degree A8990

An emphasis in Music provides the student with an understanding of music theory, harmony, and the history of western music. In addition to the foundational Music courses, students select courses in piano and a performance ensemble.

| | | | 1 0001. |
|-------------|----------------------------------|-------------|---------|
| Core/Requi | red Courses (15 units) | | on a |
| MUS 2 | Music Theory | 3.0 | cour |
| MUS 3A | Harmony | 3.0 | sele |
| MUS 5A | Musicianship | 1.0 | |
| | - Ear Training and Sight Singing | - | Sele |
| MUS 5B | Musicianship | 1.0 | BIOL |
| | - Ear Training and Sight Singing | - | BIOL |
| MUS 11A | Music Literature Survey | 3.0 | |
| MUS 16 | Individual Instruction | 3.0 | BIOL |
| MUS 22 | Conducting | 1.0 | BIOL |
| | nits selected from the following | | BTN |
| MUS 17A | Elementary Class Piano | 1.0 | місі |
| MUS 17B | Intermediate Class Piano | 1.0 | MIC |
| MUS 18 | Advanced Class Piano | 1.0 | MIC |
| | ce Ensemble | | CHE |
| • | elected from the following): | | |
| MUS 27 | Chamber Winds | 2.0 | CHE |
| MUS 30 | Collegiate Chorale | 1.0 | CHE |
| MUS 31 | Concert Choir | 2.0 | CHE |
| MUS 32 | Masterworks Chorale | 1.0 | CHE |
| MUS 34 | Women's Vocal Ensemble | 2.0 | CHE |
| MUS 36 | Concert and Community Band | 2.0 | GEO |
| MUS 38 | Ensemble | 1.0 | GEO |
| MUS 39 | Laboratory Band | 2.0 | PHY |
| MUS 40 | Pep Band | 1.0 | PHY |
| MUS 44 | Vocal Jazz Ensemble | 3.0 | PHY |
| MUS 45 | Chamber Singers | 3.0 | PHY |
| MUS 46 | Mt. SAC Singers | 2.0 | PHY |
| MUS 47 | Jazz Band | 3.0 | ENG |
| MUS 48 | Men's Vocal Ensemble | 2.0 | ENG |
| MUS 49 | Wind Ensemble | 3.0 | LING |
| | Total Units | 18.0 - 20.0 | |
| | for Area of Emphasis | | |
| Strongly Re | commended Electives: | | |
| MUS 11B | Music Literature Survey | 3.0 | |
| MUS 16 | Individual Instruction | 3.0 | |
| | | | |

(every semester)

Introduction to Music Technology 3.0

MUS 9

Associate of Arts Degree in Liberal Arts and Sciences **Emphasis in Natural Sciences** Degree A8988

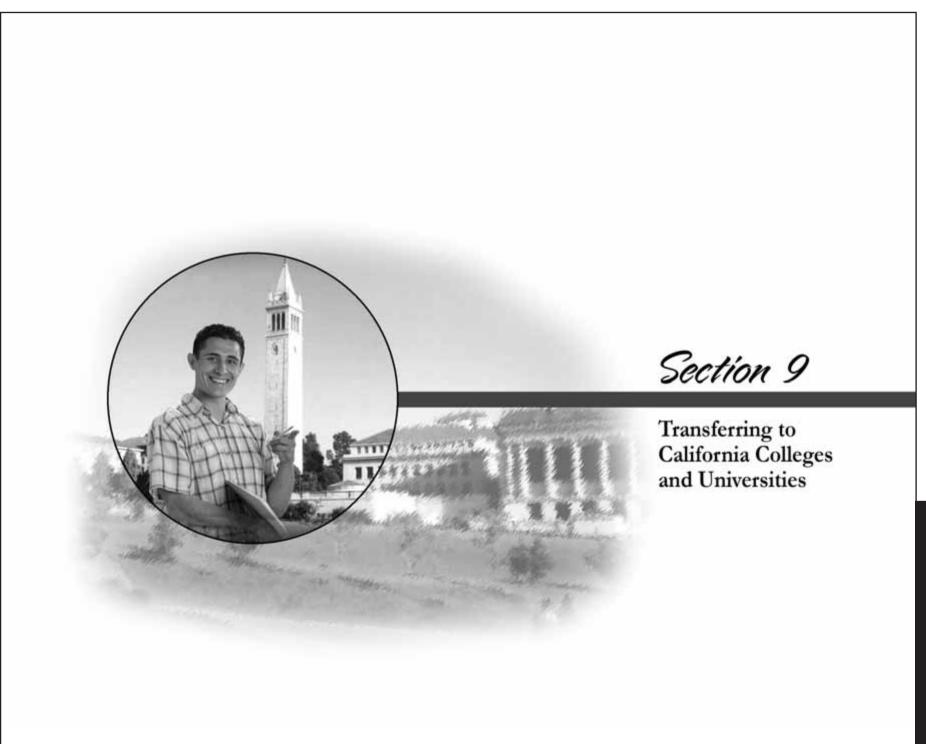
An emphasis in Natural Sciences provides the student with an understanding of living and non-living systems and promotes an appreciation of the methodologies and tools of science. Students may select courses that focus a specific major and then select complementary urses to strengthen their selected focus or they may ect courses that strengthen and broaden their overall derstanding of the Natural Sciences.

lect a minimum of 18 units from the following:

| Jelett u IIII | initialiti of to anits from the for | owing |
|---------------|-------------------------------------|-------|
| BIOL 2 | Plant & Animal Biology | 4.0 |
| BIOL 4 | Biology for Majors | 4.0 |
| | <u>or</u> | |
| BIOL 4H | Biology for Majors - Honors | 4.0 |
| BIOL 8 | Cell and Molecular Biology | 4.0 |
| BTNY 3 | Plant Structures, Functions | 5.0 |
| | and Diversity | |
| MICR 1 | Principles of Microbiology | 5.0 |
| | <u>or</u> | |
| MICR 22 | Microbiology | 4.0 |
| CHEM 50 | General Chemistry | 5.0 |
| | <u>or</u> | |
| CHEM 50H | General Chemistry - Honors | 5.0 |
| CHEM 51 | General Chemistry II | 5.0 |
| CHEM 80 | Organic Chemistry | 5.0 |
| CHEM 81 | Organic Chemistry | 5.0 |
| CHEM 60 | Quantitative Chemical Analysis | 5.0 |
| GEOL 1 | Physical Geology | 4.0 |
| GEOL 2 | Historical Geology | 4.0 |
| PHYS 2AG | General Physics | 4.0 |
| PHYS 2BG | General Physics | 4.0 |
| PHYS 4A | Engineering Physics | 5.0 |
| PHYS 4B | Engineering Physics | 5.0 |
| PHYS 4C | Engineering Physics | 5.0 |
| ENGR 40 | Statics | 3.0 |
| ENGR 41 | Dynamics | 3.0 |
| | Total Units | 18.0 |
| | for Area of Emphasis | |
| | | |
| | | |

Programs Leading to an Associates Degree

| | | | Cluster 3: L | Development of the Person | | Other reco | mmended electives include: | | |
|--------------------|--|------------|--------------|---|----------------|------------------------|---|-------|--|
| | te of Arts Degree | | (minimum | of 3 units selected from the foll | owing): | ANTH 3 Archaeology 3.0 | | | |
| | ral Arts and Sciences | | BIO 5 | Contemporary Health Issues | 3.0 | BUSM 60 | Human Relations in Business | 3.0 | |
| • | in Social & Behavioral Scie | ences | BIO 13 | Human Reproduction, | 3.0 | FCS 41 | Life Management | 3.0 | |
| Degree A | | | | Development and Aging | | COUN 5 | Career/Life Planning | 3.0 | |
| | is in Social & Behavioral Sciences | | CHLD 1 | Child, Family and Community | 3.0 | COUN 51 | Career Planning | 1.0 | |
| | h an understanding of statistics, | | CHLD 10 | Child Growth and Development | 3.0 | CHLD 1 | Child, Family and Community | 3.0 | |
| | ersity, the development of the per | rson, and | | <u>or</u> | | CHLD 73 | Infant/Toddler Care | 3.0 | |
| | t relates to behavior or society. | | CHLD 10H | Child Growth and Development | 3.0 | | and Development | | |
| | tatistics Background | | | - Honors | | CHLD 85 | Infants At Risk | 3.0 | |
| | elected from the following): | | PSYCH 14 | Developmental Psychology | 3.0 | LIT 15 | Introduction to Cinema | 3.0 | |
| MATH 110 | Elementary Statistics | 3.0 | SOC 2 | Sociology | 3.0 | LIT 20 | African American Literature | 3.0 | |
| | <u>or</u> | | | <u>or</u> | | LIT 25 | Contemporary Mexican | 3.0 | |
| | Elementary Statistics - Honors | 3.0 | SOC 2H | Sociology - Honors | 3.0 | | American Literature | | |
| PSYC 10 | Statistics | 4.0 | SOC 4 | Introduction to Gerontology | 3.0 | LIT 3 | Multicultural American Literature | | |
| | for the Behavioral Sciences | | SOC 15 | Child Development | 3.0 | PSYC 17 | Introduction to Human Services | | |
| | ultural & Gender Diversity | | | Biology as it Relates to Behavior | | PSYC 19 | Abnormal Psychology | 3.0 | |
| (minimum) | of 3 units selected from the follo | owing): | | of 3 units selected from the foll | owing): | PSYC 33 | Psychology for Effective Living | 3.0 | |
| ANTH 30 | The Native American | 3.0 | ANTH 1 | Biological Anthropology | 3.0 | SPCH 26 | Interpersonal Communication | 3.0 | |
| ANTH 5 | Principles of Cultural | 3.0 | BIOL 6 | Humans and the Environment | 3.0 | | <u>Oľ</u> | 2.0 | |
| | Anthropology | | BIOL 17 | Neurobiology and Behavior | 3.0 | SPCH 26H | Interpersonal Communication - Honors | 3.0 | |
| | <u>or</u> | 2.0 | PSYC 1B | Biological Psychology | 3.0 | SL 1 | Service Learning/Seminar | 6.0 | |
| ANTH 22 | General Cultural Anthropology | 3.0 | Plus additi | onal units taken from any cours | es in Clusters | | for Health Occupations | 0.0 | |
| JOUR 100 | Mass Media and Society | 3.0 | 2-4 above | for a total of at least 18 units. | | | <u>or</u> | | |
| IOUR 107 | Race, Culture, Sex and Mass Media Images | 3.0 | | | 18.0 | SL 2 | Linked Service Learning | 1.0 | |
| POLI 25 | Politics of the Mexican American | 3.0 | | for Area of Emphasis | | | <u>or</u> | | |
| POLI 35 | African American Politics | 3.0 | | ho decide to major in the Social | | SL 3 | Service Learning/Seminar | 3.0 | |
| SPCH 7 | Intercultural Communication | 3.0 | | Sciences are strongly encouraged | | | in Community Involvement | | |
| HIST 36 | Women in American History | 3.0 | | arch methods background by tak n to Research Methods in Psycho | | CI A | <u>Or</u> Service Learning and Community | , 1.0 | |
| | - Beyond the Stereotypes | 2.0 | | rmation Resources and Research | | SL 4 | Service Learning and Community | / 1.0 | |
| BIO 15 | Human Sexuality | 3.0 | | | | | | | |
| | <u>Or</u> Uuman Cauvalitus Hanara | 2.0 | | | | | | | |
| BIO 15H | Human Sexuality - Honors | 3.0 | | | | | | | |
| LIT 33 PSYC 25 | Images of Women in Literature The Psychology of Women | 3.0 3.0 | | | | | | | |
| PSYC 25 PSYC 26 | Psychology of Sexuality | | | | | | | | |
| SOC 5 | | 3.0 | | | | | | | |
| SOC 5 SOC 14 | Introduction to Criminology Marriage and the Family | 3.0 3.0 | | | | | | | |
| SOC 14 SOC 20 | Sociology of Ethnic Relations | | | | | | | | |
| 500 20 | or | 3.0 | | | | | | | |
| SOC 20H | <u>or</u> Sociology of Ethnic Relations | 3.0 | | | | | | | |
| 500 2011 | - Honors | 5.0 | | | | | | | |
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PROGRAMS OF STUDY LEADING TO TRANSFER

Mt. San Antonio College offers lower division transfer courses to meet the requirements for most baccalaureate majors offered by accredited colleges and universities in the United States. Students should meet with a counselor or an educational advisor in the Student Services Center for information about transfer courses in their major. It is advised that the student visit the Counseling Center in advance of the next registration period.

Students should develop an educational plan by the end of their second semester. Students with declared majors are encouraged to consult with an educational advisor or a counselor in the Counseling Center. Students who are undecided are encouraged to see a counselor or enroll in COUN 5 - Career/Life Planning.

Listed below are majors that may be offered at various campuses of the California State University (CSU) and/or the University of California (UC). Although a serious attempt was made to make this list a comprehensive one, it is not an exact list of every major available. To find out exactly what major is available at any particular university, please visit the Counseling Center. All of the CSU and UC catalogs are available in the Career and Transfer Center for your use. If you are undecided about which major is right for you, please make an appointment with a counselor in the Counseling Center, Ext. 4380.

Students who are preparing to transfer, especially to a UC campus, are strongly encouraged to balance their studies by taking both general education courses and lower division (freshman/sophomore) major courses. Completing only general education courses, especially for high unit majors, such as business administration, natural sciences, math or engineering, may not be in a student's best interest. Additional coursework may be completed as elective courses, to complement or supplement, a major course of study.

UNIVERSITY TRANSFER MAJOR OPTIONS Liberal Arts Social Sciences Sociology Art Anthropology Art History Behavioral Sciences Child Development Classics **Comparative Cultures** Cultural Geography

Creative Studies Drama/Theater Arts English and Literature Foreign Languages and Literatures Humanities Liberal Studies Linauistics Medieval Studies Museum Studies Music Musicology Philosophy **Reliaious Studies** Renaissance Studies Rhetoric

Economics Ethnic and Area Studies Asian Studies Chicana/Chicano Studies **Comparative Cultures European Studies** Latin American Studies Middle Eastern Studies Native American Studies Third World Studies History Human Development Law and Society Legal Studies Peace and Conflict Studies Political Science Psychology

Social Ecology Urban Studies Women's Studies

Natural Sciences & Math

LIFE SCIENCES **Biological Sciences** Animal Physiology Biochemistry **Biomedical Sciences** Botany Ecology **Environmental Biology** Genetics Integrative Biology Marine Biology Microbiology Molecular Biology Zooloav Health Sciences

UNIVERSITY TRANSFER MAJOR OPTIONS (continued)

Industrial Design

Interior Design

Engineering &

Computer Science

Landscape

PHYSICAL SCIENCES Astrophysics **Atmospheric Sciences** Chemistry Earth Science Geophysics Geoloav Oceanography Physical Geography Physical Sciences Physics Soil/Water Sciences MATH Mathematics Statistics **Ouantitative Methods** Agriculture/Natural **Resources/Environment** Agricultural Management Agriculture Animal Science **Bio-resources** Conservation Entomology Environmental Biology/ Toxicology Fisheries **Environmental Science/Studies** Food Science Forestry Natural Resources Management Park Management Petroleum Studies Plant Biology Soil Sciences Wildlife Management **Applied Arts** Architecture

Art

Design

Graphic Arts

COMPUTER SCIENCE/ENGINEERING Aeronautics Bio-engineering Chemical Civil Electrical/Electronic **Environmental** Food Engineering Industrial Engineering Materials Science Mechanical Nuclear Petroleum **Business** Accounting Finance Human Resources Management Information Systems International Business

Deaf Studies Dental Hygiene (UCSF) Fire Protection Administration Government/Public Service Health Care Management Human Services Liberal Studies Library Science Medical Lab Technology Nursing Nutrition **Occupational Therapy** Physical Education Public Health Radiologic Technology **Recreation Administration** Rehabilitation Social Work

Management Marketing Communication Advertising **Communication Studies** Film Studies Journalism Mass Communication Motion Picture – Television Photography Photo – Journalism Public – Relations Radio – Television Services

Services

Communicative Disorders Counseling Criminal Justice

THE CALIFORNIA STATE UNIVERSITY

Lower Division Transfer Admission Requirements Some campuses restrict enrollment of lower-division transfer students. California residents may be eligible for CSU admission with fewer than 60 transferable semester units (90 quarter units) if they:

- Have a college grade point average of 2.00 or better in all transferable college units attempted.
- Are in good standing at the last college or university attended, i.e., you are eligible to re-enroll.
- Meet the admission requirements for a first-time freshman or have successfully completed necessary courses to make up the deficiencies you had in high school if you did not complete the 15-unit pattern of college preparatory subjects.
- Meet the eligibility index required of a freshman.

Some campuses may require lower-division transfer students to have completed English composition and general education mathematics prior to transfer. Some campuses do not admit lower-division transfer students.

Contact your campus of choice to determine whether there are admission limits on the number of lower-division transfer students.

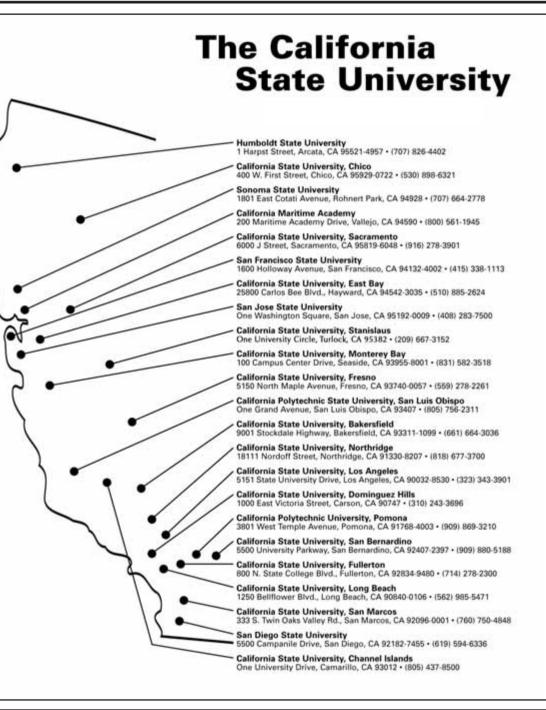
Students who completed college units before they graduated from high school or during the summer between high school graduation and CSU enrollment are considered first-time freshmen and must meet those admission requirements.

Upper Division Transfer Admission Requirements

Students are eligible for admission with 60 or more transferable semester units (90 quarter units) if they:

- Have a college grade point average of 2.00 or better (2.40 for non-California residents) in all transferable college units attempted.
- Are in good standing at the last college or university attended, i.e. are eligible to re-enroll.
- Have completed or will complete prior to transfer at least 30 semester units (45 quarter units) of courses equivalent to general education requirements with a grade of "C" or better. The 30 units must include all of the general education requirements in communication in the English language (English composition, oral communication, and critical thinking) and at least one course of at least 3 semester units (4 quarter units) required in college-level mathematics.

The above information is from the 2009-2010 California State University (CSU) undergraduate application.



CALIFORNIA STATE UNIVERSITY GENERAL EDUCATION REQUIREMENTS 2009-10

The requirements listed below are for the 2009-2010 academic year and are based upon information available at the time of catalog publication. Students may contact the Counseling Center for most current information at (909) 594-5611, ext. 4293.

Forty-eight units of general education are required to graduate from campuses of the CSU system. A maximum of 39 units may be certified by community colleges; nine units must be taken at the upper division level. Acceptable courses are grouped in five areas, A through E. A maximum of 30 units may be certified from Areas B through D collectively. The list of certifiable courses will be subject to change year by year, but students are assured that courses taken to meet General Education-Breadth Requirements will be honored if they are on the list during the year taken.

minimum grade of "C." Students who have attended other colleges are urged to consult with a counselor or educational advisor for advice on satisfying General Education-Breadth Requirements.

Students beginning Fall 2009 must follow 2009-2010 CSU GE-Breadth requirements. Courses are approved for the academic year in which they were completed. Students may obtain a copy from the Counseling Center, For the most recent version of the CSU GE, come to the Counseling Center located in Student Services, upper level.

The following program is structured so that a student who completes the program will be assured of properly meeting the General Education-Breadth Requirements of CSU. Area A and Mathematics must be completed with a

| Area A | | +CHEM 51 | General Chemistry II | +BIOL 4 | Biology for Majors | ARTB 1 | Understanding the Visual Arts |
|-----------------------|---|-----------------|---|-----------------------|--|----------|---|
| The English I | anguage and Critical Thinking (9 units) | GEOG 1 | Elements of Physical Geography | +BIOL 4H | Biology for Majors – Honors | AHIS 1H | Understanding the Visual Arts – Honors |
| | rse from each group: | GEOG 1H | Elements of Physical Geography – Honors | BIOL 6 | Humans and the Environment | AHIS 2 | Topics in Visual Art and Culture |
| A-1: Oral Con | 5 1 | +GEOG 1L | Physical Geography Laboratory | +BIOL 6L | Humans and the Environment Laboratory | AHIS 2H | Topics in Visual Art and Culture – Honors |
| SPCH 1A | Public Speaking, or | +GEOG 1LH | Physical Geography Laboratory — Honors | BIOL 17 | Neurobiology and Behavior | AHIS 3 | History of Women and Gender in Art |
| SPCH TA | Public Speaking – Honors | +GEOL 1 | Physical Geology | BIOL 20 | Marine Biology | AHIS 3H | History of Women and Gender in Art – |
| | | GEOL 7 | Geology of California | +BIOL 21 | Marine Biology Laboratory | | Honors |
| | Communication: | GEOL 8 | Earth Science | BIOL 34 | Fundamentals of Genetics | AHIS 4 | History of Western Art: Prehistoric |
| ENGL 1A | Freshman Composition | GEOL 8H | Earth Science — Honors | +MICR 1 | Principles of Microbiology | | Through Gothic |
| ENGL 1AH | Freshman Composition – Honors | +GEOL 8L | Earth Science Laboratory | +MICR 22 | Microbiology | AHIS 4H | History of Western Art: Prehistoric |
| A-3: Critical | Thinking: | GEOL 9 | Environmental Geology | PSYC 1B | Biological Psychology | | Through Gothic — Honors |
| ENGL 1C | Critical Thinking and Writing | GEOL 10 | Natural Disasters | B-3: Lab Scie | ence | AHIS 5 | History of Western Art: Renaissance |
| ENGL 1CH | Critical Thinking and Writing – Honors | GEOL 13 | Evolution of the Earth | This requirem | ent is met by taking ONE of the | | Through Modern |
| PHIL 3 | Logic in Practice | METO 3 | Weather and the Atmospheric Environment | courses above | e indicated by a "+" sign. Lab must be | AHIS 5H | History of Western Art: Renaissance |
| PHIL 3H | Logic in Practice — Honors | +METO 3L | Weather and Atmospheric | a correspondi | ng section to the lecture course taken. | | Through Modern — Honors |
| PHIL 8 | Critical Thinking | | Environment Laboratory | B-4: Mathen | natics | AHIS 6 | History of Modern Art |
| PHIL 9 | Critical Thinking and Logical Writing | 0CEA 10 | Introduction to Oceanography | Select at least | t one course from the following list: | AHIS 6H | History of Modern Art – Honors |
| PSYC 5 | Psychology of Reasoning and Problem Solving | OCEA 10H | Introduction to Oceanography – Honors | BUSC 17 | Applied Business Statistics | AHIS 9 | History of Asian Art |
| SPCH 1B | Intermediate Public Speaking | +0CEA 10L | Introduction to Oceanography Laboratory | MATH 100 | Survey of College Mathematics | AHIS 10 | A History of Greek and Roman Art |
| SPCH 20 | Argumentation and Debate | +PHSC 3 | Energy Science | MATH 110 | Elementary Statistics | | and Architecture |
| SPCH 20H | Argumentation and Debate – Honors | PHSC 7 | Physical Science | MATH 110H | | AHIS 11 | History of African, Oceanic and Native |
| | - | +PHSC 7L | Physical Science Laboratory | MATH 120 | Finite Mathematics | | American Art |
| Area B | | +PHYS 1 | Physics | MATH 130 | College Algebra | AHIS 12 | History of Precolumbian Art |
| | Universe & Life (9 units minimum): | +PHYS 2AG | General Physics | MATH 140 | Calculus for Business | AHIS 12H | History of Precolumbian Art – Honors |
| Select <u>one</u> cou | rse from each group. Also, one lab (+) | +PHYS 2BG | General Physics | MATH 150 | Trigonometry | ARCH 31 | World Architecture I |
| course must b | e included in <u>one</u> of the science groups. | +PHYS 4A | Engineering Physics | MATH 160 | Precalculus Mathematics | ARCH 32 | World Architecture II |
| B-1: Physical | Science – | B-2: Life Scie | ence | MATH 180 | Calculus and Analytic Geometry | ARTB 14 | Basic Studio Arts |
| Select at least | one course from the following list: | Select at least | t one course from the following list: | MATH 181 | Calculus and Analytic Geometry | ARTD 15A | Drawing: Beginning |
| ASTR 5 | Introduction to Astronomy | AGOR 1 | Horticultural Science | MATH 280 | Calculus and Analytic Geometry | ARTD 20 | Design: Two Dimensional |
| ASTR 5H | Introduction to Astronomy – Honors | +ANAT 10A | Introductory Human Anatomy | MATH 285 | Linear Algebra and Differential Equations | ARTD 25A | Painting: Beginning |
| +ASTR 5L | Astronomical Observing Laboratory | +ANAT 10B | Introductory Human Physiology | PSYC 10 | Statistics for the Behavioral Sciences | ARTG 20 | Art, Artists and Society |
| ASTR 7 | Geology of the Solar System | +ANAT 35 | Human Anatomy | | | ARTS 22 | Design: Three Dimensional |
| ASTR 8 | Introduction to Stars, Galaxies and | +ANAT 36 | Human Physiology | Area C | | ARTS 30A | Ceramics: Beginning |
| | the Universe | ANTH 1 | Biological Anthropology | Arts, Literat | ure, Philosophy and | ARTS 40A | Sculpture: Beginning |
| +CHEM 10 | Chemistry for Allied Health Majors | ANTH 1H | Biological Anthropology – Honors | | guages (<i>9 units</i>) | DN-T 20 | History and Appreciation of Dance |
| +CHEM 20 | Introductory Organic and Biochemistry | +ANTH 1L | Biological Anthropology Laboratory | Select <u>three</u> c | ourses, with at least <u>one</u> course from | ID 180 | History of Interior Architecture and |
| +CHEM 40 | Introduction to General Chemistry | +BIOL 1 | General Biology | | <u>e</u> course from "Humanities": | | Furnishings I |
| +CHEM 50 | General Chemistry I | +BIOL 2 | Plant and Animal Biology | C-1: Arts | | MUS 7 | Fundamentals of Music |
| +CHEM 50H | General Chemistry I – Honors | +BIOL 3 | Ecology and Field Biology | AHIS 1 | Understanding the Visual Arts, or | MUS 11A | Music Literature Survey |
| | | 1 | 5, | | | | |

Transferring to California Colleges and Universities

| | | CALI | ORNIA STATE UNIVERSITY GENER | AL EDUCAT | ION REQUIREMENTS 2009-10 | | |
|-------------|---|-----------|--|---------------|---|-----------------|---|
| MUS 11B | Music Literature Survey | * HIST 40 | History of the Mexican American | SPAN 5 | Advanced Spanish | BUSC 1B | Principles of Economics – Microeconomics |
| MUS 12 | History of Jazz | HUMA 1 | The Humanities | SPAN 6 | Continuing Advanced Spanish | BUSC 1BH | Principles of Economics – |
| MUS 13 | Introduction to Music Appreciation | ITAL 1 | Elementary Italian | SPAN 11 | Spanish for the Spanish Speaking | | Microeconomics – Honors |
| MUS 13H | Introduction to Music Appreciation – Honors | ITAL 2 | Continuing Elementary Italian | SPAN 12 | Continuing Spanish for the Spanish | JOUR 100 | Mass Media and Society |
| MUS 14A | World Music | ITAL 3 | Intermediate Italian | | Speaking | D-3: Ethnic S | |
| MUS 14B | American Folk Music | ITAL 4 | Continuing Intermediate Italian | SPAN 25 | Spanish Literature | | |
| MUS 15 | Rock Music History and Appreciation | ITAL 5 | Advanced Italian | | | * HIST 30 | History of the African American |
| PHOT 15 | History of Photography | ITAL 6 | Continuing Advanced Italian | Area D | | * HIST 31 | History of the African American |
| SPCH 4 | Oral Interpretation of Literature | ITAL 60 | Italian Culture Through Cinema | | cal, and Economic Institutions and | * HIST 40 | History of the Mexican American |
| THTR 9 | Introduction to Theatre Arts | JAPN 1 | Elementary Japanese | | storical Background | * HIST 44 | History of Native Americans |
| THTR 10 | History of Theatre Arts | JAPN 2 | Continuing Elementary Japanese | | ses: Minimum 9 units with courses from | JOUR 107 | Race, Culture, Sex, and Mass Media Images |
| THTR 11 | Principles of Acting I | JAPN 3 | Intermediate Japanese | | lisciplines (D0 – D9): | POLI 25 | Politics of the Mexican American |
| | - | JAPN 4 | Continuing Intermediate Japanese | D-0: Sociolog | yy & Criminology | POLI 35 | African American Politics |
| C-2: Humani | | JAPN 5 | Advanced Japanese | CHLD 1 | Child, Family, School and Community | SOC 20 | Sociology of Ethnic Relations |
| ARAB 1 | Elementary Arabic | LATN 1 | Elementary Latin | SOC 1 | Sociology | SOC 20H | Sociology of Ethnic Relations — Honors |
| ARAB 2 | Continuing Elementary Arabic | LATN 2 | Continuing Elementary Latin | SOC 1H | Sociology – Honors | D-4: Gender | Studies |
| CHIN 1 | Elementary Chinese | LIT 1 | Early American Literature | SOC 2 | Sociology | * HIST 36 | Women in American History — |
| CHIN 2 | Continuing Elementary Chinese | LIT 2 | Modern American Literature | SOC 2H | Sociology – Honors | | Beyond the Stereotypes |
| CHIN 3 | Intermediate Chinese | LIT 3 | Multicultural American Literature | SOC 4 | Introduction to Gerontology | * PSYC 25 | The Psychology of Women |
| CHIN 4 | Continuing Intermediate Chinese | LIT 6A | Survey of English Literature | SOC 5 | Introduction to Criminology | D-5: Geogra | |
| ENGL 1B | English – Intro to Literary Types | LIT 6B | Survey of English Literature | SOC 5H | Introduction to Criminology – Honors | GEOG 2 | Human Geography |
| ENGL 1BH | English – Intro to Literary Types – Honors | LIT 11A | World Literature | SOC 14 | Marriage and the Family | GEOG 2H | Human Geography – Honors |
| FRCH 1 | Elementary French | LIT 11B | World Literature | SOC 15 | Child Development | GEOG 2H | |
| FRCH 2 | Continuing Elementary French | LIT 14 | Introduction to Modern Poetry | SOC 20 | Sociology of Ethnic Relations | | World Regional Geography |
| FRCH 3 | Intermediate French | LIT 15 | Introduction to Cinema | SOC 20H | Sociology of Ethnic Relations – Honors | GEOG 8 | The Urban World |
| FRCH 4 | Continuing Intermediate French | LIT 20 | African American Literature | | ology & Archeology | GEOG 30 | Geography of California |
| FRCH 5 | Advanced French | LIT 25 | Contemporary Mexican American Lit | - | | D-6: History | |
| FRCH 6 | Continuing Advanced French | LIT 33 | Images of Women in Literature | ANTH 3 | Archeology | * HIST 1 | History of the United States |
| FRCH 60 | French Culture Through Cinema | LIT 35 | Science Fiction and Fantasy Survey | ANTH 5 | Principles of Cultural Anthropology | * HIST 3 | History of World Civilization |
| GERM 1 | Elementary German | LIT 36 | Introduction to Mythology | ANTH 22 | General Cultural Anthropology | * HIST 3H | History of World Civilization – Honors |
| GERM 2 | Continuing Elementary German | LIT 40 | Children's Literature | ANTH 30 | The Native American | * HIST 4 | History of World Civilization |
| GERM 3 | Intermediate German | LIT 46 | The Bible as Literature: Old Testament | D-2: Econom | ics | * HIST 4H | History of World Civilization – Honors |
| * HIST 1 | History of the United States | LIT 47 | The Bible as Literature: New Testament | AGAG 1 | Food Production, Land Use and Politics – | * HIST 7 | History of the United States |
| * HIST 3 | History of World Civilization | PHIL 5 | Introduction to Philosophy | | A Global Perspective | * HIST 7H | History of the United States – Honors |
| * HIST 3H | History of World Civilization – Honors | PHIL 5H | Introduction to Philosophy – Honors | AGFR 20 | Conservation of Natural Resources | * HIST 8 | History of the United States |
| * HIST 4 | History of World Civilization | PHIL 12 | Ethics | BUSC 1A | Principles of Economics – Macroeconomics | * HIST 8H | History of the United States – Honors |
| * HIST 4H | History of World Civilization – Honors | PHIL 12H | Ethics – Honors | BUSC 1AH | Principles of Economics – | * HIST 10 | History of Asia |
| * HIST 7 | History of the United States | PHIL 15 | Major World Religions | | Macroeconomics – Honors | * HIST 11 | History of Asia |
| * HIST 7H | History of the United States – Honors | PHIL 15H | Major World Religions – Honors | Attention | t is recommended that you use one of the | ontions holow | |
| * HIST 8 | History of the United States | PHIL 20A | History of Western Philosophy | Attention. | | סאנוסווז מכוטא | |
| * HIST 8H | History of the United States – Honors | PHIL 20B | History of Western Philosophy | CSII AME | RICAN INSTITUTIONS & U.S. HISTORY GRA | DIIATION REC | DIIIREMENT: |
| * HIST 10 | History of Asia | SIGN 101 | American Sign Language 1 | | | | ZOTNEMENT. |
| * HIST 11 | History of Asia | SIGN 102 | American Sign Language 2 | Option 1: | HIST 7 (or 7H) + HIST 8 (or 8H) | | |
| * HIST 19 | History of Mexico | SIGN 103 | American Sign Language 3 | | If Option #1 is selected, DO NOT select a | | , |
| * HIST 30 | History of the African American | SIGN 104 | American Sign Language 4 | Option 2: | Completion of one course from U.S. Hist | ory plus one c | ourse from American Institutions: |
| * HIST 31 | History of the African American | SIGN 202 | American Deaf Culture | | United States History: | | American Institutions: |
| * HIST 35 | History of Africa | SPAN 1 | Elementary Spanish | | · · · · · · · · · · · · · · · · · · · | T 31 HIST | |
| * HIST 36 | Women in American History – | SPAN 2 | Continuing Elementary Spanish | | | T 36 | POLI 1H POLI 35 |
| | Beyond the Stereotypes | SPAN 3 | Intermediate Spanish | The two o | ourses from Option 1 or Option 2 may be use | | |
| * HIST 39 | California History | SPAN 4 | Continuing Intermediate Spanish | inc two c | subes from option 1 of option 2 may be use | a as part or th | |
| | , | | - · | | | | |

| CALIFORNIA STATE UNIVERSITY GENER | AL EDUCATION REQUIREMENTS 2009-10 |
|---|--|
| CALIFORNIA STATE UNIVERSITY GENER/ * HIST 19 History of Mexico * HIST 30 History of the African American * HIST 31 History of the African American * HIST 35 History of Africa * HIST 36 Women in American History – Beyond the Stereotypes * HIST 39 California History * HIST 40 History of the Mexican American * HIST 44 History of Native Americans D-7: Interdisciplinary Social or Behavioral * CHLD 10 Child Growth and Development * CHLD 10H Child Growth and Development * CHLD 10H Child Growth and Development * CHLD 10H Child Growth and Development * DFT Intercultural Communication SPCH 7H Intercultural Communication SPCH 26H Interpersonal Communication SPCH 26H Interpersonal Communication – Honors SPCH 26H Interpersonal Communication | AL EDUCATION REQUIREMENTS 2009-10 NF 10 Nutrition for Personal Health and Wellness NF 25 Essentials of Nutrition NF 25H Essentials of Nutrition – Honors NF 28 Cultural and Ethnic Foods PE 34 Fitness for Living PSYC 14 Developmental Psychology * PSYC 25 The Psychology of Women PSYC 26 Psychology of Sexuality PSYC 33 Psychology for Effective Living SOC 15 Child Development Notes 1. 1. Upper division transfer students (60 - 70 semester baccalaureate units), will need to have at least 30 semester units of general education. Within those 30 units, Area A (9) semester units and Mathematics (3) semester units must be completed with grades of "C" or better. |
| POLI 1Political SciencePOLI 1HPolitical SciencePOLI 2Political Science TheoryPOLI 5Political Science TheoryPOLI 9Introduction to International RelationsPOLI 25Politics of the Mexican AmericanPOLI 35African American Politics D-9: Psychology PSYC 1AIntroduction to PsychologyPSYC 1AHIntroduction to PsychologyPSYC 14Developmental PsychologyPSYC 19Abnormal PsychologyPSYC 25The Psychology of WomenArea ELifelong Understanding & Self Development (3 units)Select at least one course.AD 3Chemical Dependency: Intervention, Treatment and RecoveryBIOL 5Contemporary Health IssuesBIOL 13Human Reproduction, Development and AgingBIOL 15Human SexualityBIOL 15Human SexualityBIOL 15HHuman Sexuality – Honors* CHLD 10CChild Growth and Development* CHLD 10HChild Growth and Development* CHLD 105Exploring Leadership | With glades of C of better. CSULA transfer students are advised to complete ENGL 1C or ENGL 1CH as part of the Area A requirements. CSULA requires completion of ENGL 102 (ENGL 1C or 1CH) as a prerequisite to UNIV 400 (Writing Proficiency Examination). Courses on this list have been approved by the CSU Office of the Chancellor for Fall 2009 and beyond. If a course was completed prior to approval, it cannot be certified for CSU General Education—Breadth requirements. Some majors at CSU do not allow double counting of major preparation courses and general education requirements. Students are advised to consult with a counselor or advisor to determine if courses can be double counted. Some majors require specific general education courses. Students planning to transfer are advised to plan their schedules carefully in order to maintain progress. * Courses may not be double counted to satisfy more than one area, even if a course is listed in more than one area. |

THE UNIVERSITY OF CALIFORNIA

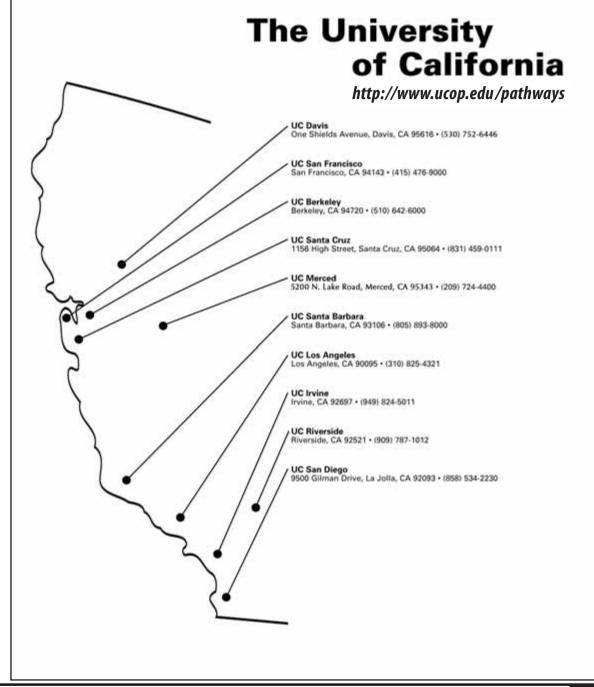
UC Minimum Admission Requirements

There are several ways to meet the University's minimum admission requirements for transfer students, as described below. The path you use depends on the degree to which you satisfied UC's minimum eligibility requirements for freshmen, at the time you graduated from high school. In all cases, you must have at least a "C" (2.0) grade point average in all transferable coursework. If you need assistance in determining whether you met the requirements, contact an educational advisor in the Counseling Center.

Minimum Admission Requirements for California Residents Transferring to UC

- 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 your senior year in high school as eligible in the Local Context – you are eligible for transfer if you have a 2.0 GPA in your transferable coursework.
- If you met the Scholarship Requirement in high school but did not satisfy the Subject Requirement, you must take transferable college courses in the missing subjects, earn a "C" or better in each required course, and maintain a 2.0 GPA in all transferable coursework to be eligible to transfer.
- 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 units (or 90 quarter units) of transferable college credit with at least a 2.4 GPA. No more than 14 semester units may be taken pass/no pass; <u>and</u>
 - B. Complete the following course pattern requirement, 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; <u>and</u>
 - one transferable college course (3 semester or 4-5 quarter units) in mathematical concepts and quantitative reasoning; <u>and</u>
 - 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 may satisfy Option 3B of the transfer admission requirements.



INTERSEGMENTAL GENERAL EDUCATION TRANSFER CURRICULUM (IGETC) 2009-10

The requirements listed below are for the 2009-2010 academic year and are based upon information available at the time of catalog publication. Students may contact the Counseling Center for most current information at (909) 594-5611, ext. 4293.

MUS 15

Completion of the IGETC will permit a student to transfer from Mt. SAC to a campus in either the University of California (UC) system or California State University (CSU) without the need, after transfer to take additional lower-division general education courses to satisfy university general education requirements. It should be noted that completion of the IGETC is not an admission requirement for transfer to UC or CSU, nor is it the only way to fulfill the lower-division general education requirements of UC or CSU prior to transfer. Students pursuing majors that require extensive lowerdivision preparation may not find the IGETC option to be advantageous (*i.e.* Engineering, Sciences).

The requirements listed below must be completed in their entirety for full certification to the UC and CSU. For students who have completed coursework at multiple campuses, the campus of last attendance prior to transfer to

MUS 14B

American Folk Music

Area 1

English Communication Select one course from each group: Group A: English Composition FNCL 1A Freehman Composition or

| ENGL TA | Freshman Composition, <u>or</u> | | | | | |
|--|--|--|--|--|--|--|
| ENGL 1AH | Freshman Composition – Honors | | | | | |
| Group B: Critical Thinking – Composition | | | | | | |
| ENGL 1C | Critical Thinking and Writing, or | | | | | |
| ENGL 1CH | Critical Thinking and Writing – Honors | | | | | |
| PHIL 9 | Critical Thinking and Logical Writing | | | | | |
| Group C: Ora | l Communication | | | | | |
| CSU requireme | ents only | | | | | |
| SPCH 1A | Public Speaking, <u>or</u> | | | | | |
| SPCH 1AH | Public Speaking – Honors | | | | | |
| - | | | | | | |
| Area 2 | | | | | | |

Mathematical Concepts and Quantitative Reasoning Select one course from: MATH 110 Elementary Statistics MATH 110H Elementary Statistics – Honors MATH 120 Finite Mathematics MATH 130 College Algebra MATH 140 Calculus for Business MATH 160 Precalculus Mathematics MATH 180 Calculus and Analytic Geometry MATH 181 Calculus and Analytic Geometry MATH 280 Calculus and Analytic Geometry MATH 285 Linear Algebra and Differential Equations Statistics for the Behavioral Sciences PSYC 10

| Area 3 | | |
|------------------------|--|---|
| Arts and Hur | | |
| Select <u>three</u> co | purses minimum, at least <u>one</u> course from on the Humanities group: | ŀ |
| 5 . | | |
| Arts Courses: | | |
| AHIS 1 | Understanding the Visual Arts, <u>or</u> | |
| ARTB 1 | Understanding the Visual Arts | |
| AHIS 1H | Understanding the Visual Arts – Honors | |
| AHIS 3 | History of Women and Gender in Art | |
| AHIS 3H | History of Women and Gender in Art — Honors | |
| AHIS 4 | History of Western Art: Prehistoric | |
| | through Gothic | |
| AHIS 4H | History of Western Art: Prehistoric | |
| | through Gothic — Honors | |
| AHIS 5 | History of Western Art: Renaissance | |
| | through Modern | |
| AHIS 5H | History of Western Art: Renaissance | |
| | through Modern — Honors | |
| AHIS 6 | History of Modern Art | |
| AHIS 6H | History of Modern Art – Honors | |
| AHIS 10 | A History of Greek and Roman Art and | |
| | Architecture | |
| AHIS 11 | History of African, Oceanic, and Native American Art | |
| AHIS 12 | History of Precolumbian Art | |
| AHIS 12H | History of Precolumbian Art – Honors | |
| ARCH 31 | World Architecture I | |
| ARCH 32 | World Architecture II | |
| DN-T 20 | History and Appreciation of Dance | |
| MUS 11A | Music Literature Survey | |
| MUS 11B | Music Literature Survey | |
| MUS 12 | History of Jazz | |
| MUS 13 | Introduction to Music Appreciation | |
| MUS 13H | Introduction to Music Appreciation – | |
| | Honors | |
| MUS 14A | World Music | |

UC or CSU will certify the coursework. Mt. SAC will certify coursework from other campuses according to the IGETC list of the originating campus. A minimum grade of "C" is required in each course. (A grade of "C-" is not acceptable.)

Students beginning Fall 2009 must follow 2009-2010 IGETC requirements. Courses are approved for the academic year in which they were completed. Students may obtain a copy from the Counseling Center.

THTR 10 History of Theater Arts **Humanities Courses:** CHIN 3 Intermediate Chinese CHIN 4 **Continuing Intermediate Chinese** ENGL 1B English – Introduction to Literary Types ENGL 1BH English – Introduction to Literary Types Honors FRCH 3 Intermediate French FRCH 4 **Continuing Intermediate French** FRCH 5 Advanced French FRCH 6 Continuing Advanced French FRCH 60 French Culture through Cinema GERM 3 Intermediate German HIST 1 History of the United States History of World Civilization HIST 3 HIST 3H History of World Civilization - Honors HIST 4 History of World Civilization History of World Civilization - Honors HIST 4H HIST 7 History of the United States History of the United States - Honors HIST 7H HIST 8 History of the United States History of the United States - Honors HIST 8H History of Asia HIST 10 HIST 11 History of Asia HIST 19 History of Mexico HIST 30 History of the African American HIST 31 History of the African American HIST 35 History of Africa HIST 36 Women in American History -Beyond the Stereotypes HIST 39 California History HIST 40 History of the Mexican American HUMA 1 The Humanities ITAL 3 Intermediate Italian ITAL 4 Continuing Intermediate Italian ITAL 5 Advanced Italian

Rock Music History and Appreciation

ITAL 6 Continuing Advanced Italian ITAL 60 Italian Culture through Cinema JAPN 3 Intermediate Japanese JAPN 4 Continuing Intermediate Japanese JAPN 5 Advanced Japanese LIT 1 Early American Literature Modern American Literature 1 IT 2 LIT 3 Multicultural American Literature LIT 6A Survey of English Literature LIT 6B Survey of English Literature LIT 10 Survey of Shakespeare LIT 11A World Literature World Literature LIT 11B LIT 14 Introduction to Modern Poetry LIT 15 Introduction to Cinema LIT 20 African American Literature Contemporary Mexican American LIT 25 Literature LIT 33 Images of Women in Literature LIT 35 Science Fiction and Fantasy Survey LIT 36 Introduction to Mythology LIT 46 The Bible as Literature: Old Testament LIT 47 The Bible as Literature: New Testament PHIL 5 Introduction to Philosophy PHIL 5H Introduction to Philosophy – Honors PHIL 12 Fthics PHIL 12H Ethics - Honors Major World Religions PHIL 15 PHIL 15H Major World Religions – Honors PHIL 20A History of Western Philosophy History of Western Philosophy PHIL 20B **SIGN 104** American Sign Language 4 SIGN 202 American Deaf Culture SPAN 3 Intermediate Spanish SPAN 4 **Continuing Intermediate Spanish** SPAN 5 Advanced Spanish SPAN 6 Continuing Advanced Spanish SPAN 25 Spanish Literature

Transferring to California Colleges and Universities

| | INTERSEGMENTAL GENERAL EDUCATION | TRANSFER CURRICULUM (IGETC) 2009-10 | |
|---|---|---|--|
| Area 4 | ASTR 8 Introduction to Stars, Galaxies, and | | |
| Area 4 Social and Behavioral Sciences Select three courses total from a minimum of two different subject areas: ANTH 3 Archaeology ANTH 5 Principles of Cultural Anthropology, or ANTH 22 General Cultural Anthropology BUSC 1A Principles of Economics: Macroeconomics BUSC 1AH Principles of Economics: Macroeconomics BUSC 1B Principles of Economics: Microeconomics | ASTR 8 Introduction to Stars, Galaxies, and the Universe CHEM 10 Chemistry for Allied Health Majors CHEM 20 Introductory Organic and Biochemistry CHEM 40 Introduction to General Chemistry I CHEM 50 General Chemistry I CHEM 50H General Chemistry I GEOG 1 Elements of Physical Geography GEOG 11 Elements of Physical Geography GEOG 11 Physical Geography Laboratory GEOG 11L Physical Geography Laboratory – Honors | CHIN 1 Elementary Chinese SIGN 101 A FRCH 1 Elementary French SPAN 1 E | ig one of the courses listed below or by completion of lementary Japanese merican Sign Language I lementary Spanish panish for the Spanish Speaking |
| MicroeconomicsHonorsGEOG 2Human GeographyGEOG 2HHuman GeographyGEOG 2HHuman GeographyGEOG 8The Urban WorldGEOG 30Geography of CaliforniaHIST 44History of Native AmericansPOLI 1Political SciencePOLI 1HPolitical SciencePOLI 5Political Science Theory | GEOL 1Physical GeologyGEOL 8Earth ScienceGEOL 8HEarth Science – HonorsGEOL 8LEarth Science LaboratoryGEOL 9Environmental GeologyGEOL 13Evolution of the EarthOCEA 10Introduction to Oceanography – HonorsOCEA 10LIntroduction to Oceanography Laboratory | <u>or</u> | ernment course. nother D6 course as your third Area D course. ory plus one course from American Institutions. |
| POLI 9Introduction to International RelationsPOLI 25Politics of the Mexican AmericanPOLI 35African American PoliticsPSYC 1AIntroduction to PsychologyPSYC 1AHIntroduction to Psychology – HonorsPSYC 19Abnormal PsychologyPSYC 25The Psychology of WomenSOC 1SociologySOC 14Sociology – HonorsSOC 2Sociology – HonorsSOC 2Sociology – HonorsSOC 4Introduction to GerontologySOC 5Introduction to Criminology – HonorsSOC 6Sociology of Ethnic RelationsSOC 70Sociology of Ethnic RelationsSOC 20HSociology of Ethnic Relations – HonorsSOC 20HSociology of Ethnic RelationsSOC 20HSociology of Ethnic RelationsSOC 20HSociology of Ethnic RelationsSOC 20HSociology of Ethnic RelationsSPCH 7Intercultural CommunicationIntercultural CommunicationPhysical and Biological SciencesChoose two courses, one physical and one biologicalscience, at least one must include a laboratory. Laboratorymust be a corresponding section to the lecture coursetaken. Laboratory courses are underlined.Physical Science:ASTR 5Introduction to AstronomyASTR 5Astronomical Observing LaboratoryASTR 7Geology of the Solar System | PHSC 3Energy SciencePHYS 1PhysicsPHYS 2AGGeneral PhysicsPHYS 2BGGeneral PhysicsPHYS 4AEngineering PhysicsPHYS 4BEngineering PhysicsPHYS 4CEngineering PhysicsBiological Science:ANAT 10AIntroductory Human AnatomyANAT 10BIntroductory Human PhysiologyANAT 35Human AnatomyANAT 36Human PhysiologyANTH 1Biological Anthropology – HonorsANTH 1LBiological Anthropology LaboratoryBIOL 1General BiologyBIOL 2Plant and Animal BiologyBIOL 4Biology for MajorsBIOL 6Humans and the EnvironmentBIOL 6Humans and the Environment LaboratoryBIOL 7Marine BiologyBIOL 8Cell and Molecular BiologyBIOL 20Marine BiologyBIOL 21Marine BiologyBIOL 22MicrobiologyBIOL 23Marine BiologyBIOL 34Principles of MicrobiologyBIOL 34Principles of MicrobiologyBIOL 34Biology CaboratoryBIOL 34Biology CaboratoryBIOL 34Principles of MicrobiologyBIOL 34Principles of MicrobiologyBIOL 34Principles of MicrobiologyBIOL 34Principles of MicrobiologyBIOL 34Biological PsychologyBIOL 34Biological Psychology | United States History:HIST 1History of the United StatesHIST 7History of the United StatesHIST 7HHistory of the United StatesHIST 8History of the United StatesHIST 8History of the United States – HonorsHIST 8History of the United States – HonorsHIST 8History of the African AmericanHIST 30History of the African AmericanHIST 31History of the Mexican AmericanHIST 36Women in American History – Beyond the StereotypesHIST 40History of the Mexican AmericanAmerican Institutions: POL1 1Political Science POL1 25POL1 15Politics of the Mexican AmericanPOL1 35African American Politics | Notes: UC limits transfer credit for some courses. Students may review the UC Transfer Course Agreement (TCA) with an educational advisor or counselor in the Student Services Center. Students must see an educational advisor or counselor for preliminary IGETC certification. For IGETC certification, the course must be on the list during the year taken. Students from non-English speaking countries should see an educational advisor or international student counselor for language proficiency equivalences. |

Transferring to California Colleges and Universities

IGETC AFTER TRANSFER PARTIAL CERTIFICATION OF THE INTERSEGMENTAL GENERAL EDUCATION TRANSFER CURRICULUM (IGETC)

The IGETC provides a pattern of courses that fulfills the transfer general education requirements at both the University of California (UC) and the California State University (CSU). Each California community college offers a complete set of courses that satisfies IGETC. If you attend more than one community college, the campus you attend just prior to transfer will certify your completion of IGETC, including courses taken at other colleges. The IGETC pattern is not recommended for all majors. See your counselor/educational advisor for advice and more complete information on the IGFTC certification.

CALIFORNIA INDEPENDENT COLLEGES AND UNIVERSITIES

California's fully-accredited independent colleges and universities provide many options at the undergraduate, graduate, and professional levels for students planning to continue their education beyond the community college.

Admission requirements vary and are listed in the catalogs of the various universities and colleges.

Financial aid may be a primary factor in making it possible for a student to attend an independent college or university. There are many forms of financial assistance available, such as federal, state, institutional, and private aid. Students should apply for scholarships, grants, loans, and work-study awards from all possible sources. All independent colleges urge, and some require, that all undergraduates who are California residents apply for a Cal Grant. Financial aid applications are available in January for the following academic year and may be obtained from a campus financial aid office. Filing instructions and deadlines are indicated on the form. Contact the individual campuses for details and assistance in completing the necessary forms.

The independent colleges and universities include:

- Alliant International University RANSFERRING TO CALIFORNIA COLLEGES AND UNIVERSITIES American Academy of Dramatic Arts Los Angeles Antioch University Los Angeles Art Center College of Design Azusa Pacific University Biola University
 - California Baptist University California College of the Arts
 - California Institute of Technology (Cal Tech)
 - California Institute of the Arts
 - California Lutheran University
 - Chapman University
 - Charles R. Drew University of Medicine and Science
 - Claremont Graduate University

- Claremont McKenna College
- Cogswell Polytechnical College
- Concordia University
- DeVRY Institute of Technology
- Dominican University of California
- Fielding Graduate University
- Fresno Pacific University
- Golden Gate University
- Harvey Mudd College
- Holy Names College
- Hope International University
- Humphreys College
- John F. Kennedy University
- Keck Graduate Institute
- La Sierra University
- Laguna College of Art and Design
- Loma Linda University
- Loyola Marymount University
- Marymount College
- The Master's College
- Menlo College
- Mills College
- Montery Institute of International Studies
- Mount St. Mary's College
- National University
- Notre Dame de Namur University
- Occidental College
- Otis College of Art and Design
- Pacific Graduate School of Psychology
- Pacific Oaks College
- Pacific Union College
- Patten College
- Pepperdine University
- Phillips Graduate Institute
- Pitzer College
- Point Loma Nazarene University
- Pomona College
- Saint Marv's College of California
- Samuel Merritt College
- San Diego Christian College
- San Francisco Conservatory of Music
- Santa Clara University
- Savbrook Graduate School and Research Center
- Scripps College
- Simpson University
- Soka University of America
- Southern California University of Health Sciences
- Stanford University
- Thomas Aguinas College
- Touro University California
- University of Judaism
- University of La Verne
- University of Redlands
- University of San Diego
- University of San Francisco

- University of Southern California
- University of the Pacific
- Vanguard University of Southern California
- Western University of Health Sciences
- Westmont College
- Whittier College
- William Jessup University
- Woodbury University

For more information on California Independent Colleges and Universities see an educational advisor or counselor in the Counseling Center. You may also obtain information from the aiccu.edu.



DEFINITIONS OF TERMS

CSU Transfer

Courses designated "CSU" are baccalaureate level and will transfer to all of the California State Universities and count toward graduation at Mt. San Antonio College.

CSU/UC Cross Enrollment Program

California residents students at Mt. San Antonio College may enroll in one undergraduate course per term at any CSU or UC campus provided the student has met the course prerequisites and approval is granted by both Mt. SAC and the university. To cross-enroll, students must: have completed at least one term at Mt. SAC; have a 2.0 grade point average (GPA) in transferable course work; and be enrolled in at least six units at Mt. SAC. A \$10.00 fee plus any material/laboratory fees associated with the course may be charged. To apply for the CSU/UC Cross Enrollment Program, students must complete the CSU/UC Cross Enrollment application; these forms are available in the Advising Center.

UC Transfer/UC Credit Limitation

Courses designated "UC" are baccalaureate level and will transfer to all of the University of California campuses and California State Universities, and will count toward graduation at Mt. San Antonio College. UC limits credit for some courses. Students contemplating transfer to UC should consult with an educational advisor and review the UC Transfer Course Agreement (TCA) for course credit limitations and changes.

UC Credit for Physical Education Activity Courses

A maximum of four semester units of UC credit will be awarded for Physical Education Activity courses. Courses of a vocational nature such as Fire or Police Academy Protection Preparation or Aerobic Instructor Training will not be awarded UC credit.

UC Credit Pending

Credit for Special Projects courses are given only after a review of the topic for the course by the enrolling UC campus. This usually occurs after transfer and may include recommendations from faculty. The UC will not give credit for special projects courses in Journalism, Photography, Health, Business Administration, Architecture, Administration of Justice (Criminology) or Library Departments because of the credit restrictions in those areas.

CAN (California Articulation Number System)

The California Articulation Number (CAN) System is a statewide numbering system of independent twin course numbers assigned by local colleges. A CAN number signals that participating California colleges and universities have determined that courses offered by other campuses are equivalent in content and scope to courses offered on their own campuses, regardless of their unique titles or local identifying numbers. Thus, if a schedule of classes or catalog lists a course bearing a CAN number, students on one campus can be assured that it will be accepted in lieu of the comparable CAN course noted in the catalog or schedule of classes of another campus. For example, CAN ECON 2 on one campus will be accepted as meeting the requirement of the designated CAN ECON 2 course on other participating community college or university campuses.

The CAN numbering system is obviously useful for students attending more than one community college and is applied to many of the transferable, lower division courses students need as preparation for their intended major. Because these course requirements may change, however, and because courses are continually being redefined, qualified, or deleted from the CAN database, students should always check with an educational advisor in The Advising Center or counselor in the Counseling Department to determine how CAN-designated courses fit into their educational plans for transfer. Students should consult the ASSIST database at **www.assist.org** for specific information on course agreements. The college staff will help students interpret this information.

Eligibility

In listing a prerequisite for enrolling in a course, an "eligibility" may also be listed. An eligibility requirement specifies the course level the student must qualify to enroll in-not that the course has to be completed prior to enrollment. For example, the prerequisite "eligibility for English 68" requires that the student must qualify to enroll in English 68 in order to enroll in the particular course.

Prerequisite

A prerequisite is a course which must be taken as preparation for enrolling in another course.

Corequisite

A corequisite is a course which is required to be taken simultaneously in order to enroll in another course.

Advisory

An advisory prerequisite is a course which is advised, but not required, to be taken either before or in conjunction with enrollment in a course.

Pre-Collegiate Basic Skills

Courses designated "Pre-collegiate" develop basic skills in reading, writing, and computation. They will neither count toward graduation from Mt. San Antonio College nor transfer to four-year colleges and universities.

Non-Degree Credit

Courses designated "Non-Degree Credit" are college level classes which are neither a part of an associate degree or certificate program nor transferable to four-year colleges and universities.

Degree Appropriate

Courses designated "Degree Appropriate" are college-level classes which are a part of an associate degree or certificate program.

Physical Education Activity

Physical education activity units consist of a combination of lecture and activity hours. This includes all PE classes except those having a prefix of PE.

UC Credit for Physical Education Activity Courses

A maximum of four semester units of UC credit will be awarded for Physical Education activity courses. Courses of a vocational nature such as Fire or Police Academy Protection Preparation or Aerobic Instructor Training will not be awarded UC credit.

| ADJU AERO AGAB AGHE AGAN AGFR AGAG AGLI AGOR AGPE AIRC AIRT AIRM AD AMLA ANAT ANTH ARAB ARCH ANAT ANTH ARAB ARCH ANIM ARTS ARTS ARTS ARTD ASTR BIOL BTNY BUSA BUSC BUSL BUSN BUSO PLGL BUSR | Administration of Justice: Law Enforcement Aeronautics Agriculture: Agri-Business Agriculture: Animal Health Technology Agriculture: Animal Science – General Agriculture: Forestry, Conservation Agriculture: Forestry, Conservation Agriculture: General Subjects Agriculture: Ivestock Production Agriculture: Ornamental Horticulture Agriculture: Pet Science Air Conditioning & Refrigeration Air Traffic Control Aircraft Maintenance Technology Anatomy & Physiology Anthropology Arabic Architectural Technology Art: Advertising Design/Graphics Art: Animation Art: Special Studio Arts Art: Three-Dimensional Studio Arts Art: Three-Dimensional Studio Arts Art: Two-Dimensional Studio Arts Astronomy Biology Botany Business: Accounting Business: Law Business: Conomics Business: Paralegal Business: Real Estate | . 114 . 115 . 115 . 116 . 116 . 117 . 117 . 117 . 117 . 117 . 120 . 121 . 122 . 123 . 124 . 125 . 126 . 130 . 131 . 131 . 131 . 132 . 133 . 134 . 135 . 136 . 137 . 137 | GRAP CISX CISB CISD CISM CISN CISN CISP CISS CISW CSCI CORS COUN DNCE DN-T DSPS EDUC ELEC EST EMS EDUC ELEC EST EMS EMT ENGR EDT ENGR FASH FIRE FRCH GEOG GEOL GERM HIST HT HRM HUMA INSP ID ITAL | Inspection & Estimating, Building | 145 145 145 146 146 146 146 147 148 148 150 150 150 153 153 153 155 155 156 157 157 159 159 164 164 164 164 165 166 167 168 170 | MFG MATH MEDI MENT METO MICR MUS NURS NF OCEA PHIL PHOT PE-L PE-A PE-Z PE-F PE-I PE-S PE PHSC PHTH PAP PHSC PHTH PAP PHYS POLI PSYC R-TV RAD READ READ RESD SL SIGN SOC SPAN SPCH STDY SURV TECH | Manufacturing Technology | 176 178 178 179 179 179 183 184 185 185 185 185 186 187 188 190 192 194 195 196 196 196 196 197 197 198 201 202 203 204 205 206 207 208 209 |
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| ASTR BIOL BTNY BUSA BUSC BUSL BUSM BUSO PLGL | Astronomy Biology Botany Business: Accounting Business: Economics Business: Law Business: Management Business: Office Technology | . 132 . 133 . 134 . 134 . 135 . 136 . 137 . 137 . 138 . 138 . 140 . 141 . 143 . 149 | GEOG GEOL GERM HIST HT HRM HUMA INSP | Geography | 164 165 166 167 168 169 170 170 170 171 172 172 173 173 173 174 | READ RESD SL SIGN SOC SPAN SPCH STDY SURV | Reading Respiratory Therapy Service Learning Sign Language & Interpreting Sociology Spanish Speech Study Techniques Surveying Technology & Related Courses Theater Arts Transportation Tutor Training Water Technology | 202 203 204 204 205 206 207 208 209 209 209 209 210 210 |

| ADMINISTRATION OF JUSTICE: LAW ENFORCEMENT ADJU 1 — The Administration of Justice System 3 Units (CAN AJ02) Degree Applicable, CSU, UC 54 hours lecture History and philosophy of the justice system, subsystems, roles, relationships and theories of crime causation and correction. | ADJU 20 — Principles of Investigation 3 Units Degree Applicable, CSU 54 hours lecture <i>Prerequisite: Eligibility for English 68</i> Fundamentals of investigation; 4th Amendment issues including crime scene search and recording; collection and preservation of physical evidence; modus operandi; scientific aids; sources of information; | AERO 24 — Navigation 3 Units Degree Applicable, CSU 54 hours lecture Advisory: AERO 23 Advanced dead reckoning navigation procedures. Aeronautical computers and their application in cross-country flying. Use of radio navigation aids, flight planning, flight directors, global positioning |
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| ADJU 2 — Principles and Procedures of the 3 UnitsJustice System Degree Applicable, CSU 54 hours lecture Roles and responsibilities of each segment of the justice system; additional focus on relationships between system segments and sub- system procedures from initial incident to final disposition. ADJU 3 — Concepts of Criminal Law (CAN AJ04) 3 Units (CAN AJ04) Degree Applicable, CSU, UC 54 hours lecture Provides an overview of California criminal law from the perspective of the law enforcement officer. | interviews and interrogation; follow up and case preparation. ADJU 38 — Narcotics Investigation 3 Units Degree Applicable 54 hours lecture Prerequisite: Eligibility for English 68 Investigation techniques for drug enforcement. Drug effects, use of informants, amendment issues, and handling of evidence. ADJU 59 — Gangs in the Community/Corrections 3 Units Degree Applicable, CSU 54 hours lecture | system, and electronic flight instrumentation systems. AERO 25 — Commercial Pilot Ground School 3 Units Degree Applicable, CSU 54 hours lecture Advisory: AERO 23 FAA Commercial Pilot certification requirements, including aerodynamics, commercial pilot maneuvers, complex aircraft operations, multi-engine aircraft operations, aircraft weight and balance, aircraft performance charts, and radio navigation using advanced instrumentation. Prepares students for completion of the FAA Commercial Pilot Computerized Knowledge Examination. |
| ADJU 4 — Legal Aspects of Evidence 3 Units Degree Applicable, CSU 54 hours lecture Introduction to criminal evidence, including admissibility, witness competency, privileged communication, hearsay, and collection and preservation of evidence. | Advisory: Eligibility for ENGL 68, ADJU 1 Exploration of contemporary street and prison gang issues, including historical and current perspectives, prison gang dynamics, identification of characteristics, cultural differences of gang philosophy. Includes law enforcement/corrections role in intervention/suppression. ADJU 68 — Administration of Justice Report Writing 3 Units | AFRO 26 — Aviation Weather 3 Units Degree Applicable, CSU 54 hours lecture A basic study of weather elements, the atmosphere, weather mechanics, weather disturbances, weather analysis and forecasts. Evaluation of aviation weather reports and forecasts. |
| ADJU 5 — Community Relations 3 Units Degree Applicable, CSU, UC 54 hours lecture Prerequisite: Eligibility for English 68 68 Community problems and policing. Focus on service image, diversity, human relations, crises and confrontations with the public. ADJU 6 — Concepts of Enforcement Services ADJU 6 — Concepts of Enforcement Services 3 Units | 54 hours lecture 54 hours lecture Techniques for proper documentation of crime reports and related law enforcement records. Use of simulations and role-playing. ADJU 74 — Vice Control 3 Units Degree Applicable 54 hours lecture Prerequisite: Eligibility for English 68 Code and exced aw dealing with vice detection and suppression: | AERO 27 — Aviation Safety and Human Factors 3 Units Degree Applicable, CSU 54 hours lecture Advisory: AERO 23 23 Evaluation and analysis of factors which lead to aircraft accidents. Includes the study of aircraft accident cause factors, with emphasis on human behavior as it relates to the environment of the pilot and air traffic controller. |
| Degree Applicable 54 hours lecture Responsibilities, techniques and methods of police patrol with emphasis on the basic knowledge required in handling common police occurrences. ADJU 13 — Concepts of Traffic Services 3 Units Degree Applicable 54 hours lecture A study of traffic management, collision reconstruction, collision factors including law violations and human factors, collision evidence, traffic enforcement techniques and specialization in traffic management. Emphasis is placed on service to the motoring public. | Code and case law dealing with vice; detection and suppression; apprehension and prosecution of violators; special consideration of laws dealing with gambling, prostitution, and sex crimes. AERONAUTICS AERO 23 — Primary Pilot Ground School 4 Units Degree Applicable, CSU 72 hours lecture Basic aerodynamics, aircraft performance, Federal Aviation Regulations, aviation weather factors, and cross-country navigation procedures; provides introductory material on radio navigation, aeromedical factors, and radio communications procedures. Meets the preparation requirements for the FAA Private Pilot computerized knowledge examination. | AERO 28 — Aircraft and Engines3 Units Degree Applicable, CSU54 hours lecture Advisory: AERO 23Aircraft design, subsystems, repair and maintenance. Principles of internal combustion engines, fuel system, engine construction and design, lubrication and cooling methods, ignition system, basic troubleshooting. Turbine engine basic design and operational characteristics.AERO 29 — Federal Aviation Regulations2 Units Degree Applicable, CSU36 hours lecture Federal Aviation Regulations that pertain to pilot certification, aircraft maintenance, general operating rules; air traffic control practices and procedures; reporting of aircraft accidents. |

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| AER0 30 — Instrument Ground School 3 Units Degree Applicable, CSU 54 hours lecture Advisory: AERO 23 and AERO 26 Instrument Flight Rules, Air Traffic Control communications and procedures, air navigation radio aids, instrument landing systems, flight instruments, aircraft performance, aeronautical publications, instrument approach procedures, IFR cross-country navigation, and instrument weather. Meets the preparation requirements for the FAA Instrument Pilot computerized knowledge exam. AERO 40 — Flight 1 Unit Degree Applicable (May be taken four times for credit) (May be taken for Pass/No Pass only) 18 hours lecture Advisory: AERO 23 taken prior or concurrently Flight training career preparation, including evaluation of locally available flight training options and flight career opportunities including corporate aviation, charter operations, cargo airline careers, | ARRO 42 — Advanced Flight Simulator Laboratory .5 Unit Degree Applicable (May be taken for Pass/No Pass only) 27 hours lab Advisory: AERO 30 or AERO 41 Flight simulator training in the ATC-810 simulator in preparation for the multi-engine rating and advanced instrument flight. Emergency procedures for multi-engine aircraft and high performance airplanes. AERO 45A — Multi-Engine Turbine Aircraft Operations 3 Units S4 hours lecture Advisory: Private Pilot's Certificate and AERO 30 or Instrument Rating An introduction to the design features and operational characteristics of a selected multi-engine turbine aircraft utilized in regional airline operations and corporate aviation, with emphasis on aircraft and engine systems. AERO 58 — Flight Instructor Ground School 3 Units | AGHE 60 — Medical Nursing and Animal Care 4 Units Degree Applicable, CSU 54 hours lecture 54 hours lab Prerequisite: AGLI 95 and formal admittance to the Registered Veterinary Technology program Animal examination for health and disease conditions in the animal hospital, including sanitation, administration of medicine, emergency treatment, therapeutic techniques, dental prophylaxis, venipuncture, electrocardiology, application of casts, splints and other appliances. Includes diseases, their causes and effects, and immunology of animals. AGHE 61 — Surgical Nursing 4 Units Degree Applicable, CSU 54 hours lecture 54 hours lecture 54 hours lab Prerequisite: AGHE 60 Surgical preparation, surgical assistance, post-operative care, administer and monitor anesthesia, dentistry, CPR, sterilization and the maintenance of a sterile environment. |
| ARRO 40L — Flight Laboratory 1 Unit (May be taken for Pass/No Pass only) 54 hours lab Corequisite: AERO 40 | 54 hours lecture Advisory: AERO 25 and AERO 30 or Commercial Pilot Certificate with Instrument Rating The learning process, basic teaching principles, and the application of these principles in teaching student pilots. Analysis of flight maneuvers and instruments. Prepares students for the FAA computerized knowledge tests for Flight Instructors. AGRICULTURE: AGRI BUSINESS | AGHE 62A — Clinical Pathology 4 Units Degree Applicable, CSU 54 hours lecture 54 hours lab <i>Prerequisite: AGLI 95</i> Introduces students to the expansive field of clinical pathology. Topics include hematology, clinical chemistries, internal parasites, immunology, serology and vaginal cytology. |
| Advisory: AERO 23 taken prior or concurrently Primary pilot training and the development of specialized skills. Students individually schedule training lessons at a flight school of their choice, under the supervision of an FAA certificated flight instructor. Students must complete a minimum of 15 hours of flight time, including three hours of dual instruction. Students who repeat this course will improve skills through further instruction and practice. AERO 41 — Basic Flight Simulator Laboratory .5 Unit Degree Applicable (May be taken for Pass/No Pass only) 27 hours lab Advisory: AERO 25 Flight simulator training in the iGATE PC-ATD simulator in preparation for the instrument rating. Full and partial panel airwork, holding patterns, VOR and ADF orientation, and instrument approach procedures. | AGAB 20 — Microcomputer Applications in Agriculture 3 Units (CAN AG02) Degree Applicable, CSU, UC 54 hours lecture Advisory: Eligibility for ENGL 68 Use of word processing, data base, spreadsheets, and graphic programs for students interested in agricultural business, nursery and landscape, equipment, and farm management. AGRICULTURE: ANIMAL HEALTH TECHNOLOGY AGHE 54 — Veterinary Office Procedures 3 Units Degree Applicable 54 hours lecture Includes veterinary hospital records, client relations, medical terminology, filing of governmental reports, legal responsibilities of animal health technicians and application of veterinary medical ethics. | AGHE 62B — Clinical Pathology 4 Units Degree Applicable, CSU 54 hours lecture 54 hours lab Prerequisite: AGLI 95 Introduces students to the expansive field of clinical pathology. Topics include bacteriology, clinical chemistry, urinalysis, external parasites and cytology. AGHE 64 — Veterinary Pharmacology 3 Units Degree Applicable, CSU 54 hours lecture Prerequisite: Formal admittance to Advanced Class Status in the Registered Veterinary Technology Program, and completion of MATH 51 or MATH 51B or AGAG 91 Basic concepts in pharmacological chemistry. Pharmaceuticals and biologics commonly used in the maintenance of animal health. Includes generic terminology, abbreviations for prescriptions, labeling requirements, state and federal laws, classification of materials, weights and measures, drug dosage flow rates, pharmacological mathematics and the metric system, side effects and drug interactions. |

| AGHE 65 — Veterinary Radiography2 Units Degree Applicable, CSU18 hours lecture54 hours labPrerequisite: AGLI 95 and formal admittance to the Registered Veterinary Technology ProgramBasic concepts and skills of veterinary positioning of canine, feline, avian, reptilian species, and livestock for radiography; processing of the radiograph; radiation safety; basic technique and instrumentation; contrast radiography and ultrasound imaging. Emphasizes performance of x-ray procedures for the veterinary practitioner.AGHE 79 — Laboratory Animal Medicine and Care S4 hours lab Laboratory animal medicine, care and procedures, rules and regulations | AGHE 84B — Applied Animal Health Procedures 1 Unit Degree Applicable 54 hours lab Spring field study course in the collection, handling and analysis of feces, urine and blood samples of pet and domestic animals. Practical experience in applied clinical procedure and techniques, including treatments and minor surgical procedures with school domestic farm animals. Experiences with animals will vary due to seasonal changes and different husbandry practices during fall and spring. AGHE 85 — Seminar in Registered Veterinary Technology 1 Unit Degree Applicable 18 hours lecture Prerequisite: Completion of the Registered Veterinary Technology program Group study course designed to help students with success on their national and state registration examinations. Course includes exposure to the types of questions encountered in registration examinations, | AGAN 94 — Animal Breeding 3 Units Degree Applicable 54 hours lecture The science of animal breeding, including fundamentals of inheritance, reproduction and breeding systems for domestic animals. Artificial insemination, embryo manipulation and current topics in reproductive biotechnology will also be included. AGRICULTURE: FORESTRY, CONSERVATION AGFR 20 — Conservation of Natural Resources 3 Units Degree Applicable, CSU, UC 54 hours lecture Prerequisite: Eligibility for ENGL 68 Concepts of conservation biology for natural resources, including biogeography, biodiversity and extinction, environmental law, and conservation organizations. Emphasis on temperate forest, tropical |
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| governing laboratory animals. AGHE 83A — Work Experience in Animal Health 1 to 2 Units Degree Applicable (May be taken four times for credit) (May be taken for Pass/No Pass only) 75 to 150 hours lab Prerequisite: Formal admittance in the Registered Veterinary Technology Program. Compliance with Work Experience regulations as designated in the College Catalog. This course is designed to provide majors with actual on-the-job experience in an approved work station which is related to classroom instruction. A minimum of 75 paid clock hours or 60 non-paid clock hours per semester is required for each one unit of credit. It is recommended that the hours per week are equally distributed throughout the semester. Students who repeat this course will improve skills through further instruction and practice. AGHE 84A — Applied Animal Health Procedures 1 Unit | question analysis strategies, and review of important anatomical, physiological, and nursing concepts. AGHE 86 — Anatomy and Physiology of Domestic Animals 4 Units Degree Applicable, CSU 54 hours lecture 54 hours lab Prerequisite: Formal admitance to the Registered Veterinary Technology Program. Analyzes the body structures and systems, comparing domestic animals commonly found in veterinary medicine. The physiology section will emphasize functions of internal organs and body systems. AGRICULTURE: ANIMAL SCIENCE GENERAL AGAN 1 — Animal Science 3 Units (CAN AG06) Degree Applicable, CSU, UC 54 hours lecture Fundamental problems and essential concepts of animal production. | forest, desert, and grassland ecosystems. AGRICULTURE: GENERAL SUBJECTS AGAG 1 — Food Production, Land Use and Politics 3 Units - A Global Perspective Degree Applicable, CSU, UC 54 hours lecture Surveys the world's food producing systems in terms of economic, political and cultural forces. Emphasizes ethical, sustainable food producing agriculture. 1 to 4 Units AGAG 59 — Work Experience in Agriculture 1 to 4 Units Degree Applicable (May be taken four times for credit) (May be taken for Pass/No Pass only) 75 to 300 hours lab Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog This course is designed to provide Animal Science majors with actual |
| Degree Applicable 54 hours lab Fall field study course in the collection, handling, and analysis of feces, urine, and blood samples of pet and domestic animals. Practical experience in applied clinical procedures and techniques, including treatments and minor surgical procedures with domestic farm animals. Experiences with animals will vary due to seasonal changes and different husbandry practices during fall and spring. | Includes the study of the types of domestic animals and their utilization by humans. AGAN 2 — Animal Nutrition 3 Units (CAN AG12) Degree Applicable, CSU, UC 54 hours lecture Composition of feeds and their utilization by domestic animals, including digestive physiology, animal assessment, feed appraisal and compiling of rations. AGAN 51 — Animal Handling and Restraint 3 Units Degree Applicable, CSU 36 hours lecture 54 hours lab Methods of proper handling for large and small animals, including chemical and physical techniques of restraint. | nns course is designed to provide Animal Science majors with actual on-the-job experience in an approved work station which is related to classroom instruction. A minimum of 75 paid clock hours or 60 non-paid clock hours per semester is required for each one unit of credit. It is recommended that the hours per week are equally distributed throughout the semester. Students who repeat this course will improve skills through further instruction and practice. AGAG 91 — Agricultural Calculations 3 Units Degree Applicable 54 hours lecture <i>Prerequisite: Eligibility for MATH 51</i> Calculating the proper rates of application of veterinary drugs, fertilizers, irrigation water, farm chemicals and pesticidal materials. Practical field work in calibrating application equipment, plotting production rates and feed conversion, determining proper concentrations and dilutions and standardizing butterfat and solids non-fat. |

| AGAG 99 — Special Projects in Agriculture 2 Units Degree Applicable, CSU (May be taken four times for credit) (May be taken for Pass/No Pass only) 36 hours lecture In order to offer selected students recognition for their academic interests and ability and the opportunity to explore their disciplines to greater depth, the various departments from time to time offer Special Projects courses. The content of each course and the methods of study vary from semester to semester and depend on the particular project under consideration. Students repeating this course will make individual contracts of a more advanced nature with the instructor to insure that proficiencies are enhanced. AGRICULTURE: LIVESTOCK PRODUCTION AGLI 12 — Exotic Animal Management 3 Units Degree Applicable 54 hours lecture | AGLI 18 — Horse Ranch Management 4 Units Degree Applicable, CSU 54 hours lecture 54 hours lab Advisory: AGLI 16 Skills and knowledge to work on or manage a modern equine ranch, including management of the breeding farm, farm lay out, estrous cycles, breeding problems and stallion care. AGLI 19 — Horse Hoof Care 2 Units Degree Applicable, CSU 18 hours lecture 54 hours lab AGLI 20 — Horse Behavior and Training 18 hours lecture 54 hours lab Emphasizes proper horse hoof care; shoeing, trimming and disease recognition and control. AGLI 20 — Horse Behavior and Training 2 Units Degree Applicable | AGLI 97 — Artificial Insemination of Livestock 2 Units Degree Applicable 18 hours lecture 54 hours lab Theory and application of artificial insemination of domestic animals, including semen evaluation and processing, heat synchronization, and pregnancy diagnosis. AGRICULTURE: ORNAMENTAL HORTICULTURE AGOR 1 — Horticultural Science 3 Units (CAN AG08) Degree Applicable, CSU 54 hours lecture Basic horticulture skills and techniques for use in gardening, nursery, and landscape applications. Emphasis on propagation, cultural practices, and the study of plant relationships, structure, growth and development. AGOR 2 — Plant Propagation/Greenhouse Management 3 Units (CAN AG10) Degree Applicable, CSU |
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| Care and management of exotic and alternative livestock species with emphasis on identification, health maintenance, handling techniques, nutrition and reproduction. Includes analysis of industry trends and principal marketing uses of exotic animals. AGLI 14 — Swine Production 3 Units (CAN AG24) Degree Applicable, CSU 36 hours lecture | 54 hours lab Corequisite: AGLI 16 or AGLI 18 (may have been taken previously) or equivalent experience with horses. Breaking and starting young horses. Concentrates on halter training of foals, ground work on yearlings, and green-breaking two-year-olds and up. Includes lunging techniques, driving, and breaking to a saddle. Training in collection, turning, backing, leads, and trailer loading. | Solution 2019 Segree Applicable, CSO 36 hours lecture 54 hours lab Plant propagation and production practices with emphasis on florists' plants, woody ornamentals and fruits. Commercial techniques include seed propagation, cuttings, grafting and budding, layering, fern sporing and division. Stresses greenhouses and other environmental structures for plant propagation and production. |
| 54 hours lab A study of the various types of swine enterprises and the ways and means of entering them. Swine management, including handling, feeding, breeding, farrowing, butchering, and marketing. Practical skills are taught using the college farm. AGLI 16 — Horse Production 4 Units | AGLI 30 — Beef Production3 Units(CAN AG20)Degree Applicable, CSU36 hours lecture54 hours labPrinciples and practices in the selection and management of feeder, market, and breeding beef cattle. Economics of production, retail product, utilization of farm-grown feeds, and feedlot operation. | AGOR 4 — Park Management 3 Units Degree Applicable 54 hours lecture Management and operation of municipal park departments. Includes the development of budgets, purchasing, park policies, planning and scheduling. |
| (CAN AG26) Degree Applicable, CSU, UC 54 hours lecture 54 hours lab Selection, utilization, and management of the light horse emphasizing recreational aspects of the modern horse. Laboratory work includes experience in the care of horse and tack. | AGLI 34 — Livestock Judging and Selection 2 Units Degree Applicable, CSU, UC 18 hours lecture 54 hours lab Study of form and appearance of farm animals as related to their function. Includes judging of breeding and terminal livestock as well as | AGOR 5 — Park Facilities 3 Units Degree Applicable 54 hours lecture Management and operation of different types of park facilities. Includes the management of sports fields, recreation centers, campgrounds, aquatic facilities and golf courses. |
| AGLI 17 — Sheep Production3 Units(CAN AG22)Degree Applicable, CSU36 hours lecture54 hours lab54 hours labA study of the various types of sheep enterprises and the ways and means of entering them. Sheep management, sheep handling, feeding, shearing, breeding, lambing, and marketing. Practical skills are taught on the school farm and sheep farms in the area. | carcass evaluation. AGLI 96 — Animal Sanitation and Disease Control 3 Units Degree Applicable, CSU 54 hours lecture Prevention and control of infectious diseases affecting domestic animals, including basic disease concepts, transmission of infectious diseases, principles of sanitation and fundamentals of immunology. | AGOR 13 — Landscape Design 3 Units Degree Applicable, CSU 36 hours lecture 54 hours lab 54 hours lab Fundamentals and implementation of landscape design. Principles of design, the design process, drafting, graphics, site evaluation, landscaping materials, and plant usage. Projects emphasize residential and small commercial sites. |

| Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture Design, installation and maintenance practices used in interior landscaping. Includes identification, culture and care of plants suitable for interior use. Field trip required. | AGOR 39 — Turf Grass Production and Management 3 Units Degree Applicable, CSU 36 hours lecture 54 hours lab Introduction to cultivation, maintenance and management of turfgrasses utilized for athletic fields, golf courses, parks, cemeteries, commercial and residential lawns. Identification, installation, cultural requirements and maintenance practices are emphasized. Field trips required. | AGOR 53 — Small Engine Repair I3 Units Degree Applicable, CSU(May be taken for option of letter grade or Pass/No Pass)36 hours lecture54 hours labPrinciples and repair of small engines used in landscape, industrial and agricultural applications. Includes repairs of lawnmowers, chainsaws, 2- cycle engine, 4-cycle engine, spraying equipment, all-terrain vehicles, and other related gas-powered equipment. |
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| 36 hours lecture A 54 hours lab Identifies common agricultural pests in Southern California and analyzes physical, biological and chemical pest control principles and practices. Stresses use, safety, equipment, laws, and regulations of pesticides. AGOR 29 — Ornamental Plants - Herbaceous 3 Units (CAN AG18) Degree Applicable, CSU, UC 36 hours lecture Stresses use, safety, equipment, laws, and regulations of pesticides. 54 hours lab Identification, growths habits, culture and ornamental use of landscape annuals, biennials, perennials, ferns, indoor plants, groundcovers and Stresse use, safety, equipment, Plants emphasized will come from the California Association of Nurserymen (CAN) and California Stresse Landscape Contractors Association (CLCA) certification test plant lists. Stresse and Shrubs adapted to climates of California. Plants emphasized Will come from the California Association of Nurserymen (CAN) and California Landscape Contractors Association (CLCA) certification test Jahat lists. Jogree Applicable, CSU Stresse AGOR 32 — Landscaping and Nursery Management J Units Ste location and management of wholesale and retail nurseries. Includes Ste Ste location and layout of areas; greenhouse management; soil mixes Advisory: AGOR 1 Operation an | AGOR 40 — Sports Turf Management3 Units Degree Applicable(May be taken for option of letter grade or Pass/No Pass)36 hours lecture54 hours labPrepares students to work in the sports turf industry. Emphasizes turf cultural techniques used in sports turf management. Includes turf surfaces used on baseball, football, soccer, tennis, golf courses, driving ranges and other sports fields in both professional and amateur sports. Field trips included.AGOR 50 — Soil Science and Management3 Units (CAN AG14)CAN AG14)Degree Applicable, CSU, UC 36 hours lecture54 hours labPrinciples of proper soil management to optimize plant growth, including management of air, water, nutrients and organic matter. Physical and chemical properties of soil that govern soil reactions and interactions. Field trips are included.AGOR 51 — Tractor and Landscape Equipment Operations 36 hours lecture3 Units Degree Applicable, CSU | AGOR 54 — Small Engine Repair II3 Units Degree Applicable, CSU(May be taken for option of letter grade or Pass/No Pass)36 hours lecture54 hours labAdvanced repair and maintenance of mid-horsepower gasoline and diesel engines. Multi-cylinder air- and water-cooled engines used in landscape, industrial and agricultural applications. Repair of ridemowers, generator engines, air compressor engines, 2-cycle and 4-cycle engines, spraying equipment, all-terrain vehicles, and other related gas-powered equipment. Students gain actual hands-on experience maintaining and overhauling engines.AGOR 55 — Diesel Engine Repair3 Units Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture 54 hours lab Repair and maintenance of diesel engines used to power industrial, landscape and agricultural equipment. Students gain actual hands-on experience maintaining, servicing, and repairing diesel engines.AGOR 56 — Engine Diagnostics3 Units Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture 54 hours labAGOR 56 — Engine Diagnostics3 Units Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture 54 hours labAnalysis and evaluation of tractor power failure. Students gain actual experience in the proper diagnostic procedures of power equipment. Service, maintenance and repair of tractor electrical systems: electrical wiring, voltage regulators, generators, alternators, switches, gauges, batteries and test equipment.AGOR 57 — Power Train Repair3 Units Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture 54 hours labAGOR 5 |

Section 10 119

| AIR CONDITIONING AND REFRIGERATION AIRC 10 — Technical Mathematics in Air Conditioning and Refrigeration Degree Applicable 27 hours lecture 27 hours lab Develops mathematical skills required for the study and application of air conditioning and refrigeration including measurements and equations applied to heat loads, air distribution, electricity, and the design of air conditioning and refrigeration equipment. | AIRC 26A — Heat Pump Fundamentals 1.5 Units Degree Applicable 27 hours lecture Advisory: AIRC 25 taken prior Theory, operation and application of heat pump systems used in residential and light commercial heating installations including the heat pump refrigeration cycle, reversing valves, defrost methods supplemental heat, balance point, air flow, and heat pump thermostats. AIRC 26B — Gas Heating Fundamentals 2 Units Degree Applicable | AIRC 34 — Advanced Mechanical Refrigeration 4 Units Degree Applicable 54 hours lecture 54 hours lab Advisory: AIRC 31, AIRC 32A, AIR 32B taken prior Advanced principles of mechanical air conditioning and refrigeration based on operating characteristics of working equipment and the interpretation of the pressure-enthalpy chart. Advanced technical aspects of mechanical components will be explored to include compressors, metering devices, pressure regulators, capacity controls, and defrost methods. |
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| AIRC 11 — Welding for Air Conditioning and Refrigeration Degree Applicable 18 hours lecture 54 hours lab Fundamentals of welding related to the field of air conditioning and refrigeration with emphasis on the sterile techniques and skills required for joining copper refrigerant lines and the procedures for light fabrication. | 36 hours lecture Advisory: AIRC 12, AIRC 25 taken prior Theory, operation, and application of natural gas and propane heating systems used in residential and light commercial heating installations including the properties of fuel gasses, gas combustion, furnace construction, pilot proving devices and ignition systems. AIRC 30 — Heat Load Calculations 54 hours lecture 3 Units | AIRC 37 — Pneumatic Controls 2 Units Degree Applicable 27 hours lecture 27 hours lab Advisory: AIRC 20 taken prior Pneumatic controls including thermostats, valves, receiver controllers and dampers applied to various commercial air conditioning and refrigeration systems. |
| AIRC 12 — Air Conditioning Codes and Standards 3 Units Degree Applicable 54 hours lecture Building codes and standards as they apply to the air conditioning and refrigeration industry. Develops skills necessary to read and interpret building codes and resolve installation and service problems as they apply to the construction industry. AIRC 20 — Refrigeration Fundamentals 3 Units B6 hours lecture 3 Units 36 hours lecture 3 Units | Advisory: AIRC 20 taken prior Heat load factors and charts will be explored, developed and applied to the heat loss and gain of a residential, refrigeration and commercial building. AIRC 31 — Commercial Electrical for Air Conditioning and Refrigeration Degree Applicable 54 hours lecture 54 hours lab Advisory: AIRC 25 taken prior Electrical control of commercial air conditioning and refrigeration | AIRC 39 — Building Automation Systems 4 Units Degree Applicable 54 hours lecture 54 hours lab Advisory: AIRC 32A, AIRC 32B taken prior Principles of building automation systems applied to air conditioning systems, chiller plant operation, and air distribution. Includes the application of variable air volume, constant air systems, multizone systems and controlled devices used in automated air conditioning systems. Emphasis on programming strategies applied to mechanical trainers. |
| 72 hours lab Principles of mechanical refrigeration based on the refrigeration cycle and associated mechanical components. Develops skills for interpreting service gauge pressures and sensible temperatures, system dehydration techniques, and the safe handling and containment of refrigerants. AIRC 25 — Electrical Fundamentals for Air Conditioning and Refrigeration Degree Applicable 54 hours lecture 54 hours lab Electrical principles and practices used in air conditioning and refrigeration as applied to the development and interpretation of schematics and the sequential approach to wiring circuits including power supplies, motors, and controls. Develops skills for designing electrical circuits, and electrical trouble shooting. | Intercention of commercial and conditioning and reingeration equipment emphasizing time clocks, defrost, three phase transformers, three phase motors, timers, sequencers, starting methods and troubleshooting of three phase systems. AIRC 32A — Air Properties and Measurement 1.5 Units Degree Applicable 27 hours lecture Advisory: AIRC 20, AIRC 30 taken prior Investigates the air-side operating theory and application of comfort cooling systems. This course will broaden the student's understanding of air conditioning systems by addressing psychrometrics to include the measurement of dry bulb and wet bulb temperatures, relative humidity, dew point temperatures, and sensible and latent heat processes. AIRC 32B — Air Distribution Systems 1.5 Units Degree Applicable 27 hours lecture Advisory: AIRC 20, AIRC 30, AIRC 32A taken prior Degree Applicable 27 hours lecture Air Distribution of AIRC 32A and explores airside equipment and duct design applied to built-up and unitary air distribution systems. | AIRC 95 — Work Experience in Air Conditioning and Refrigeration 1 to 4 Units Not Degree Applicable (May be taken four times for credit) (May be taken for Pass/No Pass only) 75 to 300 hours lab Prerequisite: Approval of college Work Experience supervisor and compliance with Work Experience regulations as designated in the College Catalog This course is designed to combine actual job experience in Air Conditioning and Refrigeration with related classroom instruction. This work experience may be during a regular semester or during a summer session. A minimum of 75 paid clock hours or 60 non-paid clock hours per semester is required for each one unit of credit. It is recommended that the hours per week are equally distributed throughout the semester. Students who repeat this course will improve skills through further instruction and practice. |

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| AIR TRAFFIC CONTROL AIRT 41 — Aircraft Recognition and Performance 2 Units Degree Applicable, CSU 36 hours lecture Advisory: AERO 23 Recognition of distinctive identification features of operational aircraft and their performance characteristics. Classification of aircraft by Federal Aviation Administration designations. AIRT 42 — Air Traffic Control Environment 3 Units Degree Applicable, CSU 54 hours lecture Advisory: AERO 23 and TRAN 17 Aircraft operation in the National Airspace System. Control tower operations, terminal and enroute radar control. Coordination and control within an AIC team environment. Radio communication techniques and phraseology. Non-radar control and separation procedures. AIRT 43 — Air Traffic Control Team Skills 1.5 Units Degree Applicable, CSU 27 hours lecture Advisory: AIRT 42 Leadership skills for aviation professionals, with emphasis on air traffic control scenarios. Control tower simulations, including communication and conflict resolution. Coordination and control of air traffic utilizing FAA standards and interpersonal team skills. AIRT 45 — Flight Services 3 Units Degree Applicable, CSU 54 hours lecture Advisory: AERO 23, AERO 29 <td cols<="" td=""><td>AIRT 51 — Air Traffic Control Laboratory 1 Unit Degree Applicable 54 hours lab Advisory: AERO 23, AERO 26, AERO 29 Concepts, procedures, and skills related to air traffic control. Microphone technique, voice control, phraseology, facility and interfacility coordination, strip markings, airport traffic control, weather observing, and control tower functions. AIRT 55 — Terminal Radar Approach Control Laboratory 1 Unit Degree Applicable (May be taken four times for credit) 54 hours lab Advisory: AIRT 51 and AERO 30 taken prior or concurrently Simulation of a radar approach control facility concentrating on approach and departure procedures using appropriate phraseology, flight progress strip markings and radar separation standards. Students who repeat this course will improve skills through further instruction and practice. AIRCRAFT MAINTENANCE TECHNOLOGY AIRM 65A — Aircraft Powerplant Maintenance 13 Units Technology Degree Applicable, CSU 108 hours lecture 376 hours lab Theory and overhaul of aircraft reciprocating and turbine powerplants. Approved and required for the FAA powerplant certification and Airframe and Aircraft Powerplant Maintenance 13 Units Degree Applicable, CSU 108 hours lecture 376 hours lab Theory and overhaul of aircraft reciprocating and turbine powerplants. Appro</td><td>and Electronics36 hours lecture72 hours labAdvisory: AIRM 71Basic electrical theory including units, terminology, applications ofOhm's Law in series and parallel circuits, nickel cadmium and lead acidstorage batteries, generators and related control circuits, electricalwiring practices, and electrical measuring instruments construction anduse. Approved by the FAA and required for the Airframe and AircraftPowerplant Maintenance Technology Major.AIRM 70B — Aircraft Maintenance Electricity3 Unitsand ElectronicsDegree Applicable36 hours lecture72 hours labAdvisory: AIRM 72, AIRM 73 (May be taken concurrently)Basic principles of alternating current, terminology, units and circuitarrangements, alternators, inverters and related controls, derating ofswitches and circuit breakers, capacitors, inductors, transistors, cathoderay tubes, digital electronics, microprocessors, computers, powerdistribution systems for large aircraft. Approved by the FAA and requiredfor the Airframe and Aircraft Powerplant Maintenance Technologymajor.AIRM 71 — Aviation Maintenance Science6 UnitsDegree Applicable108 hours lectureFederal aviation regulations, interpretation of aircraft drawings, basicphysics, technical mathematics, and aircraft weight and balancecomputations. FAA approved course required of all aircraft powerplantand airframe maintenance technology majors.</td></td> | <td>AIRT 51 — Air Traffic Control Laboratory 1 Unit Degree Applicable 54 hours lab Advisory: AERO 23, AERO 26, AERO 29 Concepts, procedures, and skills related to air traffic control. Microphone technique, voice control, phraseology, facility and interfacility coordination, strip markings, airport traffic control, weather observing, and control tower functions. AIRT 55 — Terminal Radar Approach Control Laboratory 1 Unit Degree Applicable (May be taken four times for credit) 54 hours lab Advisory: AIRT 51 and AERO 30 taken prior or concurrently Simulation of a radar approach control facility concentrating on approach and departure procedures using appropriate phraseology, flight progress strip markings and radar separation standards. Students who repeat this course will improve skills through further instruction and practice. AIRCRAFT MAINTENANCE TECHNOLOGY AIRM 65A — Aircraft Powerplant Maintenance 13 Units Technology Degree Applicable, CSU 108 hours lecture 376 hours lab Theory and overhaul of aircraft reciprocating and turbine powerplants. Approved and required for the FAA powerplant certification and Airframe and Aircraft Powerplant Maintenance 13 Units Degree Applicable, CSU 108 hours lecture 376 hours lab Theory and overhaul of aircraft reciprocating and turbine powerplants. Appro</td> <td>and Electronics36 hours lecture72 hours labAdvisory: AIRM 71Basic electrical theory including units, terminology, applications ofOhm's Law in series and parallel circuits, nickel cadmium and lead acidstorage batteries, generators and related control circuits, electricalwiring practices, and electrical measuring instruments construction anduse. Approved by the FAA and required for the Airframe and AircraftPowerplant Maintenance Technology Major.AIRM 70B — Aircraft Maintenance Electricity3 Unitsand ElectronicsDegree Applicable36 hours lecture72 hours labAdvisory: AIRM 72, AIRM 73 (May be taken concurrently)Basic principles of alternating current, terminology, units and circuitarrangements, alternators, inverters and related controls, derating ofswitches and circuit breakers, capacitors, inductors, transistors, cathoderay tubes, digital electronics, microprocessors, computers, powerdistribution systems for large aircraft. Approved by the FAA and requiredfor the Airframe and Aircraft Powerplant Maintenance Technologymajor.AIRM 71 — Aviation Maintenance Science6 UnitsDegree Applicable108 hours lectureFederal aviation regulations, interpretation of aircraft drawings, basicphysics, technical mathematics, and aircraft weight and balancecomputations. FAA approved course required of all aircraft powerplantand airframe maintenance technology majors.</td> | AIRT 51 — Air Traffic Control Laboratory 1 Unit Degree Applicable 54 hours lab Advisory: AERO 23, AERO 26, AERO 29 Concepts, procedures, and skills related to air traffic control. Microphone technique, voice control, phraseology, facility and interfacility coordination, strip markings, airport traffic control, weather observing, and control tower functions. AIRT 55 — Terminal Radar Approach Control Laboratory 1 Unit Degree Applicable (May be taken four times for credit) 54 hours lab Advisory: AIRT 51 and AERO 30 taken prior or concurrently Simulation of a radar approach control facility concentrating on approach and departure procedures using appropriate phraseology, flight progress strip markings and radar separation standards. Students who repeat this course will improve skills through further instruction and practice. AIRCRAFT MAINTENANCE TECHNOLOGY AIRM 65A — Aircraft Powerplant Maintenance 13 Units Technology Degree Applicable, CSU 108 hours lecture 376 hours lab Theory and overhaul of aircraft reciprocating and turbine powerplants. Approved and required for the FAA powerplant certification and Airframe and Aircraft Powerplant Maintenance 13 Units Degree Applicable, CSU 108 hours lecture 376 hours lab Theory and overhaul of aircraft reciprocating and turbine powerplants. Appro | and Electronics36 hours lecture72 hours labAdvisory: AIRM 71Basic electrical theory including units, terminology, applications ofOhm's Law in series and parallel circuits, nickel cadmium and lead acidstorage batteries, generators and related control circuits, electricalwiring practices, and electrical measuring instruments construction anduse. Approved by the FAA and required for the Airframe and AircraftPowerplant Maintenance Technology Major.AIRM 70B — Aircraft Maintenance Electricity3 Unitsand ElectronicsDegree Applicable36 hours lecture72 hours labAdvisory: AIRM 72, AIRM 73 (May be taken concurrently)Basic principles of alternating current, terminology, units and circuitarrangements, alternators, inverters and related controls, derating ofswitches and circuit breakers, capacitors, inductors, transistors, cathoderay tubes, digital electronics, microprocessors, computers, powerdistribution systems for large aircraft. Approved by the FAA and requiredfor the Airframe and Aircraft Powerplant Maintenance Technologymajor.AIRM 71 — Aviation Maintenance Science6 UnitsDegree Applicable108 hours lectureFederal aviation regulations, interpretation of aircraft drawings, basicphysics, technical mathematics, and aircraft weight and balancecomputations. FAA approved course required of all aircraft powerplantand airframe maintenance technology majors. |
| AIRT 47 — Work Experience in Air Traffic Control 1 Unit Not Degree Applicable (May be taken four times for credit) (May be taken for Pass/No Pass only) 75 hours lab Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog On-the-job experience in an approved FAA work station. A minimum of | and required for the FAA powerplant certification and Airframe and Aircraft Powerplant Maintenance Technology major. AIRM 66A — Airframe Maintenance Technology 13 Units Degree Applicable, CSU 108 hours lecture 376 hours lab Theory of flight. Aircraft structures including inspection, maintenance, repair, and alteration. Approved and required for the FAA airframe certification and | AIRM 72 — Aviation Materials and Processes 1.5 Units Degree Applicable 18 hours lecture 36 hours lab Advisory: AIRM 70B, AIRM 73 An FAA approved course covering aviation materials, non-destructive testing, basic heat-treating and an introduction to machine tool operation. AIRM 73 — Aviation Welding 1.5 Units | |
| 75 paid clock hours or 60 non-paid clock hours per semester is required for each one unit of credit. It is recommended that the hours per week are equally distributed throughout the semester. Students who repeat this course will improve skills through further instruction and practice. | Airframe and Aircraft Powerplant Maintenance Technology major. AIRM 66B — Airframe Maintenance Technology 13 Units Degree Applicable, CSU 108 hours lecture 376 hours lab Airframe systems and components. Approved and required for the FAA and required airframe certification and the Airframe and Aircraft Powerplant Maintenance Technology major. | Degree Applicable 18 hours lecture 36 hours lab <i>Advisory: AIRM 70B, AIRM 72 (May be taken concurrently)</i> Theory and techniques of gas and inert gas welding as they apply to aircraft construction and repair. Approved by the FAA and required for the Airframe and Aircraft Powerplant Maintenance Technology major. | |

| AIRM 74 — Aircraft Maintenance Technology - 2 Units Work Experience Degree Applicable (May be taken for Pass/No Pass only) 90 hours lab | AIRM 91B — Airframe Maintenance Technology 3 Units Degree Applicable 36 hours lecture 72 hours lab Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73 | AIRM 95B — Aircraft Powerplant Maintenance 3 Units Technology Degree Applicable 36 hours lecture 72 hours lab |
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| Prerequisite: AIRM 65A and AIRM 65B or AIRM 66A and AIRM 66B Combines aircraft maintenance experience in addition to classroom instruction for college credit. Two units of credit will be earned as a result of 120 unpaid or 150 paid work hours. The employer/evaluator | Metals and composite materials used in aircraft construction, maintenance, and repair. Approved by the FAA and required for the Airframe and Aircraft Powerplant Maintenance Technology major. | <i>Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73</i> A FAA approved course covering piston engine overhaul, inspection, and troubleshooting procedures. |
| will have the student perform aircraft maintenance work under direct supervision at a maintenance facility. | AIRM 92A — Airframe Maintenance Technology 3 Units Degree Applicable | AIRM 96A — Aircraft Powerplant Maintenance 3 Units Technology Degree Applicable |
| AIRM 80 — Lab Studies in Aircraft Maintenance Technology (May be taken four times for credit) (May be taken for Pass/No Pass only) 27 to 54 hours lab | 36 hours lecture 72 hours lab <i>Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73</i> Aircraft hydraulic and pneumatic power systems, landing gear and wheel and brake systems. FAA approved. Approved by the FAA and required for the Airframe and Aircraft Powerplant Maintenance Technology major. | 36 hours lecture 72 hours lab <i>Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73</i> Aircraft turbine engine history, construction, thrust formulas and turbine engine types. Approved by the FAA and required for the Airframe and Aircraft Powerplant Maintenance Technology Major.Required for FAA certification. |
| Advisory: AIRM 65 A/B, or AIRM 66 A/B, or AIRM 90-93 A/B, or AIRM 95- 98 A/B, or equivalent Additional lab instruction for students needing FAA required hours to complete a training certificate or required remediation of program modules or completion of aboratory assignments. Students who repeat this course will improve skills through further instruction and practice. AIRM 90A — Airframe Maintenance Technology 3 Units Degree Applicable | AIRM 92B — Airframe Maintenance Technology 3 Units Degree Applicable 36 hours lecture 72 hours lab <i>Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73</i> Aircraft warning systems, aircraft instrument systems and aircraft fuel storage and transfer systems. Approved by the FAA and required for the Airframe and Aircraft Powerplant Maintenance Technology Major. | AIRM 96B — Aircraft Powerplant Maintenance Technology 3 Units Degree Applicable 36 hours lecture 36 hours lecture 72 hours lab Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73 Propeller theory, nomenclature, application, constant speed devices, and propeller controls. Approved by the FAA and required for the Airframe |
| 36 hours lecture 72 hours lab <i>Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73</i> A FAA approved course covering aircraft flight, flight control and construction methods and procedures. | AIRM 93A — Airframe Maintenance Technology 3 Units Degree Applicable 36 hours lecture 72 hours lab Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73 | and Aircraft Powerplant Maintenance Technology Major. Required for FAA certification. AIRM 97A — Aircraft Powerplant Maintenance Technology 36 hours lecture |
| AIRM 90B — Airframe Maintenance Technology 3 Units Degree Applicable 36 hours lecture 72 hours lab Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73 Aircraft structural designs, station numbers, aviation nomenclature and | A FAA aproved course coveing aircraft cabin heating and cooling, communication and navigation systems, and ice and rain control systems in small and large aircraft. AIRM 93B — Airframe Maintenance Technology 3 Units Degree Applicable | 72 hours lab Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73 A FAA approved course covering instrumentation and smoke and fire detection/suppression systems used in small and large aircraft. Includes engine starting systems and electrical power generating devices. |
| definitions. Approved by the FAA and required for the Airframe and Aircraft Powerplant Maintenance Technology major. AIRM 91A — Airframe Maintenance Technology 3 Units Degree Applicable 36 hours lecture | 36 hours lecture 72 hours lab <i>Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73</i> Aircraft fire detection and suppression systems. Aircraft inspection requirements and procedures. Approved by the FAA and required for the Airframe and Aircraft Powerplant Maintenance Technology major. | AIRM 97B — Aircraft Powerplant Maintenance Technology Degree Applicable 36 hours lecture 72 hours lab Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73 |
| 72 hours lab <i>Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73</i> Aircraft wood structures, their coverings and finishes. Approved by the FAA and required for the Airframe and Aircraft Powerplant Maintenance Technology major. | AIRM 95A — Aircraft Powerplant Maintenance Technology 3 Units Degree Applicable 36 hours lecture 36 hours lecture 72 hours lab Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73 A FAA approved course covering piston powerplant theory. Includes calculations and construction methods. | Reciprocating engine and turbine engine fuels, fuel metering devices, and system operation. Approved by the FAA and required for the |

| AIRM 98A — Aircraft Powerplant Maintenance 3 Units | AD 5 — Chemical Dependency: Prevention 1.5 Units | AD 13 — Internship/Seminar 3.5 Units |
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| Technology Degree Applicable 36 hours lecture 72 hours lab <i>Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73</i> Reciprocating and turbine engine ignition system theory and operation. Approved by the FAA and required for the Airframe and Aircraft Powerplant Maintenance Technology major. | and Education Degree Applicable, CSU 27 hours lecture Reviews and examines drug prevention effectiveness, at both the private and public level. Appraises personal attitudes, past and present, and their influence on societal norms. Evaluates current prevention programs and the necessary steps for developing, funding and managing a program. | Degree Applicable, CSU (May be taken for Pass/No Pass only) 27 hours lecture 126 hours lab Advisory: AD 1, AD 2, AD 3, AD 4, AD 5, AD 6, and six units of Restricted Electives taken prior and AD 8, AD 9, AD 10, AD 11 taken prior or concurrently The first of a two-semester sequence which places students in Alcohol/Drug Abuse agencies and organizations. This first semester |
| AIRM 98B — Aircraft Powerplant Maintenance 3 Units Technology Degree Applicable 36 hours lecture 72 hours lab Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73 Reciprocating and turbine engine lubricants and lubricating systems. | Degree Applicable, CSU | emphasizes growth in self-awareness and professionalism, interviewing skills and group process skills. AD 14 — Advanced Internship/Seminar 3.5 Units Degree Applicable, CSU (May be taken for Pass/No Pass only) |
| Approved by the FAA and required for the Airframe and Aircraft Powerplant Maintenance Technology major. ALCOHOL DRUG COUNSELING AD 1 — Alcohol/Drug Dependency 3 Units Degree Applicable, CSU | AD 8 — Group Process and Leadership 3 Units Degree Applicable 54 hours lecture Advisory: AD 1, AD 2, AD 3 taken prior and AD 4, AD 5, AD 6 taken prior or concurrently Introduces the theory and practice of group counseling, the group process and dynamics of group interaction. | 68 hours lecture 68 hours lab Advisory: AD 10 and AD 13 The second of a two-semester sequence in which the student applies the values, concepts and skills gained from previous courses to the actual process of helping chemically dependent persons. AMERICAN LANGUAGE |
| 54 hours lecture Presents an overview of alcohol and chemical dependencies and ramifications. Explores the impact these dependencies have upon the individual's social, psychological, economic, physiological well-being, community and family concerns. Examines the "myths," images, and stereotypes about substances and substance abusers. Includes familiarization with terms. AD 2 — Physiological Effects of Alcohol/Drugs 3 Units | AD 9 — Family Counseling 3 Units Degree Applicable 54 hours lecture Advisory: AD 1, AD 2, AD 3 taken prior and AD 4, AD 5, AD 6 taken prior or concurrently Introduces the theory and practice of family counseling. Topics include, family systems and dynamics, effects of chemical dependency, and | AMLA 21S — Accent Reduction2 Units Not Degree Applicable(May be taken for option of letter grade or Pass/No Pass)36 hours lecturePronunciation and listening for non-native speakers with emphasis on articulation, stress and intonation patterns, and listening. Students will analyze individual pronunciation strengths and weaknesses. |
| AD 2 — Physiological Effects of Alcohol/Drugs 3 Units Degree Applicable, CSU 54 hours lecture Examines in-depth the physiological effect of alcohol and other drugs on the human body. Includes aspects of tolerance, habituation, cross tolerance and synergistic effect. AD 3 — Chemical Dependency: Intervention, Treatment and Recovery Degree Applicable, CSU | AD 10 — Client Record and Documentation 1.5 Units Degree Applicable 27 hours lecture Advisory: AD 1, AD 2, AD 3 taken prior and AD 4, AD 5, AD 6 taken prior or concurrently | AMLA 22S — American Language 2 Units Interpersonal Communication Not Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture Enhances ability of non-native speakers to communicate in every day and academic situations. Emphasis on grammatical accuracy and sophisticaton as well as confidence in communications in pesonal and |
| 54 hours lecture Examines and analyzes the tools and techniques necessary in moving the chemically dependent individual into the treatment process; the varying types of treatment programs, and the essentials of effective recovery. AD 4 — Issues in Domestic Violence 3 Units Degree Applicable 54 hours lecture Examines the history, law and psychology of domestic violence; cultural/social aspects; relationship to substance abuse. | AD 11 — Techniques of Intervention 3 Units Degree Applicable 54 hours lecture Advisory: AD 1, AD 2, AD 3 taken prior and AD 4, AD 5, AD 6 taken prior or concurrently Study and practice techniques used for crisis and beginning counseling, intake interviewing and referral. Using an experiential format, participants will learn and practice skills in attentive listening, recognizing and responding to different levels of client communication. | professional settings. AMLA 23S — American Language Formal Speaking 2 Units Not Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture Advisory: Eligibility for AMLA 41W Enhances the ability of non-native speakers to listen effectively and speak formally in a variety of situations. Emphasis is on note-taking, outlining, organizing speeches, and verbal articulation of ideas. |

| AMLA 24 — Idiomatic English 2 Units Not Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture Intermediate course in the study of idiomatic language, including common American idioms and proverbs, as used in everyday language situations AMLA 31R — American Language Basic Reading 4 Units | AMLA 43W — American Language Advanced Writing 4 Units Not Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 72 hours lecture Prerequisite: Satisfactory score on the English Placement Test or successful completion of AMLA 42W Advisory: AMLA 33R taken prior or concurrently Advanced grammar and writing for non-native speakers. | AMLA 61 — American Language Word Forms 1 Unit Not Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 18 hours lecture Helps non-native speakers of English practice noun, verb, adjective and adverb word forms in spoken and written English. ANATOMY AND PHYSIOLOGY |
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| Not Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 72 hours lecture Prerequisite: Satisfactory score on appropriate Reading Placement Test or successful completion of noncredit ESL Level 4 Basic reading and vocabulary for non-native speakers. AMLA 32R — American Language Intermediate Reading 4 Units | AMLA 56 — American Language Nouns and Articles 1 Unit Not Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 18 hours lecture Concentrates on count and non-count nouns, article usage and other determiners for non-native learners of English. Writing practice and exercises will emphasize correct usage of these structures in writing and speaking. | ANAT 10A — Introductory Human Anatomy 4 Units Degree Applicable, CSU, UC 54 hours lecture 54 hours lab A systematic study of the macroscopic and microscopic structures of the human body. Emphasis on cell structures, skeletal, muscular, respiratory, circulatory, nervous, digestive, excretory, endocrine, and reproductive systems. |
| Not Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 72 hours lecture Prerequisite: Successful completion of AMLA 31R, or satisfactory score on appropriate Reading Placement Test, or successful completion of noncredit ESL levels 5, 6, or VESL Intermediate reading and vocabulary for non-native speakers. AMLA 33R — American Language Advanced Reading 4 Units Not Degree Applicable (May be taken for option of letter grade or Pass/No Pass) | AMLA 57 — American Language Verb Review I 1 Unit Not Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 18 hours lecture Concentrates on verb tense, form, and use for non-native learners of English. Practice in present, past, and future verb tense forms, meaning, and use in both spoken and written English, with special emphasis on writing for college courses. AMLA 58 — American Language Verb Review II 1 Unit | ANAT 10B — Introductory Human Physiology 4 Units Degree Applicable, CSU, UC 54 hours lecture 54 hours lab <i>Prerequisite: ANAT 10A or ANAT 35</i> <i>Advisory: CHEM 10 or CHEM 40</i> An integrated study of the function of and interaction between the skeletal, muscular, respiratory, circulatory, nervous, digestive, excretory (including electrolyte and acid-base balance), endocrine, and reproductive systems (including human genetics and embryology). |
| 72 hours lecture Prerequisite: Successful completion of AMLA 32R or satisfactory score on appropriate Reading Placement Test Advanced reading and vocabulary for non-native speakers. AMLA 41W — American Language Basic Writing AMLA 41W — American Language Basic Writing Vot Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 72 hours lecture Prerequisite: Satisfactory score on the English Placement Test or successful | Not Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 18 hours lecture Advanced work on modals, passive voice, passive modals, and conditionals for non-native English students. Exercises and writing practice will emphasize improved verb usage in writing. AMLA 59 — American Language Prepositions Mot Degree Applicable (May be taken for option of letter grade or Pass/No Pass) | ANAT 35 — Human Anatomy5 Units(CAN BIOL10)Degree Applicable, CSU, UCCAN BIOL SEQ B54 hours lecture108 hours labAdvisory: BIOL 1, BIOL 4Structure of the organ systems at the gross, subgross, and microscopiclevels based on human material and dissection of the cat. Designed to serve as an introduction to vertebrate embryology. |
| Completion of noncredit ESL Level 4 Advisory: AMLA 31R taken prior or concurrently Basic grammar and writing for non-native speakers. AMLA 42W — American Language Intermediate Writing 4 Units Not Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 72 hours lecture Prerequisite: Satisfactory score on the English Placement Test or successful completion of AMLA 41W or noncredit ESL level 5 or 6 or VESL Advisory: AMLA 32R taken prior or concurrently Intermediate grammar and writing for non-native speakers. | 18 hours lecture Designed to help non-native learners of English practice their use of prepositions in spoken and written English. Students will analyze prepositions and idiomatic expressions through reading and will apply their knowledge to written work. AMLA 60 — American Language Verb Review III 1 Unit | ANAT 36 — Human Physiology 5 Units (CAN BIOL 12) Degree Applicable, CSU, UC CAN BIOL SEQ B 54 hours lecture 108 hours lab <i>Prerequisite: ANAT 35, and CHEM 10 or CHEM 40</i> Extensive study of human physiology at the cellular and molecular levels covering muscular, nervous, circulatory, respiratory, renal, digestive, endocrine, and reproductive systems. Includes regulation and integration of organ systems where appropriate. |

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| ANAT 40 — Human Prosection 2 Units Degree Applicable, CSU 108 hours lab Prerequisite: Completion of ANAT 35 Degree Applicable, CSU Techniques for human prosection. Regional exploration of the human organ systems at the gross level. 3 Units ANAT 50 — Basic Anatomy and Physiology 3 Units Degree Applicable 54 hours losture | ANTH 3 — Archaeology3 Units(CAN ANTH06)Degree Applicable, CSU, UC(May be taken for option of letter grade or Pass/No Pass)54 hours lecturePrerequisite: Eligibility for ENGL 68Introduction to the aims, methods and ethics of archaeological researchand their application to the archaeological record, in contrast to populardepictions of archaeology. Topics include the evolution of culture fromthe earliest stone toolmakers to the primary civilizations of the Old and | ANTH 99 — Special Projects in Anthropology 2 Units Degree Applicable, CSU (May be taken four times for credit) 36 hours lecture To offer selected students recognition for their academic interests and ability and the opportunity to explore their disciplines to greater depth, the various departments from time to time offer Special Projects courses. The content of each course and the methods of study vary from semester to semester and depend on the particular project under |
| 54 hours lecture Introduction to human anatomy and physiology by systems, with brief descriptions of biochemistry, cell biology, and molecular biology. Upon completion, students will understand normal functions of major human organ systems and be able to recognize pathologies. ANTHROPOLOGY | New Worlds, with emphasis on the invention and spread of agriculture and the impact of this change on prehistoric cultures. ANTH 5 — Principles of Cultural Anthropology 3 Units (CAN ANTH04) Degree Applicable, CSU, UC 54 hours lecture The aptropological approach to the study of human behavior from a | consideration. Students repeating this course will make individual contracts of a more advanced nature with the instructor to ensure that proficiencies are enhanced. ARABIC ARAB 1 — Elementary Arabic 4 Units |
| ANTH 1 — Biological Anthropology 3 Units (CAN ANTH02) Degree Applicable, CSU, UC 54 hours lecture <i>Prerequisite: Eligibility for ENGL 68</i> The evolutionary biology of primates with particular emphasis on hominid evolution and behavior. The genetic and evolutionary mechanisms underlying evolution, human variation, primate field | The anthropological approach to the study of human behavior from a cross cultural, comparative, and an evolutionary perspective. An exploration into the languages, economics, sociopolitical systems, religions, and world views of diverse world cultures. A technical presentation is stressed as this course is designed for Social Sciences majors. ANTH 22 — General Cultural Anthropology 3 Units | Degree Applicable, CSU, UC 72 hours lecture Intended for students with little or no previous exposure to Arabic. Begins to develop elementary reading, writing, and speaking skills in Modern Standard Arabic. Focuses on mastery of Arabic script, pronunciation, simple grammatical structures, and basic vocabulary, along with an introduction to Arab culture. |
| ANTH 1H — Biological Anthropology - Honors 3 Units (CAN ANTH02) Degree Applicable, CSU, UC 54 hours lecture Prerequisite: Acceptance into the Honors Program The evolutionary biology of primates with particular emphasis on homonid evolution and behavior. The genetic and evolutionary mechanisms underlying evolution, human variation, primate field studies, and the hominid palentological record are stressed. This enriched course is designed for the honors program allowing, for | Degree Applicable, CSU, UC 54 hours lecture An introductory course to explore the nature of culture and how cultural anthropologists study cultural phenomena such as language, personality, subsistence, economics, social and political organization, marriage, kinship systems, religion, the arts, and culture change. A substantial amount of case material will be drawn from at least three of the following: African Americans, indigenous peoples of the United States, Asian Americans, Chicano/Latino Americans, and European Americans. This course may meet the cultural diversity requirement at transfer universities. | ARAB 2 — Elementary Arabic Continued 4 Units Degree Applicable, CSU, UC 4 hours lecture Prerequisite:ARAB 1 or equivalent Continues to develop elementary reading, writing, and speaking skills in Modern Standard Arabic. Emphasizes verbs, word patterns, and vocabulary building; introduces short authentic texts. Includes some exposure to Formal Spoken Arabic. |
| example, more student directed discussions and more extensive writing assignments. Students may not receive credit for both ANTH 1 and ANTH 1H. ANTH 1L — Biological Anthropology Laboratory 1 Unit Degree Applicable, CSU, UC 54 hours lab Corequisite: ANTH 1 or ANTH 1H (may have been taken previously) | ANTH 30 — The Native American 3 Units Degree Applicable, CSU, UC 54 hours lecture Surveys the prehistory and history of Native Americans. An overview of the classification system used to organize particular groups into culture areas related to adaptive strategies. Identification of world contributions and contemporary issues for modern Native Americans. | ARCH 10 — Design I - Elements of Design 3 Units Degree Applicable, CSU, UC 36 hours lecture 72 hours lab Fundamentals of two- and three-dimensional design and design process. Elements include visualization, perception, presentation, expression, and site analysis of physical/contextual/cultural aspects of design and/or the urban environment. Portfolio will be produced. |
| Scientific study of human evolution. Students will generate and test hypotheses using the techniques and materials of biological anthropology. Includes genetic observations and calculations, osteological techniques and measurements, and primate behavior observations. One field trip to a zoo for primate observation is required. | | ARCH 11 — Architectural Drawing3 Units Degree Applicable, CSU, UC36 hours lecture72 hours labAdvisory: Eligibility for MATH 51Basic graphic and drawing techniques, including architectural graphics, building construction fundamentals, and methods of drawings considered prerequisite to architectural design. |

| ARCH 12 — Architectural Materials and Specifications 3 Units Degree Applicable, CSU | ARCH 21 — Design II - Architectural Design 3 Units Degree Applicable, CSU | ARCH 31 — World Architecture I 3 Units Degree Applicable, CSU |
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| 54 hours lecture Advisory: Eligibility for MATH 51 Application and development of construction materials. Formulation of materials specification used in architecture and the construction industry. | 36 hours lecture 72 hours lab <i>Advisory: ARCH 10, ARCH 11, ARCH 13</i> Application of methods and theory used in architectural design projects. Includes graphic technique, design process, site analysis, presentation drawings and construction principles. Portfolio will be produced. | 54 hours lecture Development of architecture including ancient Egypt, Europe through the Middle Ages, and classic civilizations of Asia and the Americas. Influence of geography, religion, and socio- economic movements on architecture. |
| ARCH 13 — Architectural Illustration 3 Units Degree Applicable, CSU, UC | ARCH 23 — Architectural Presentations 3 Units | ARCH 32 — World Architecture II 3 Units Degree Applicable, CSU |
| 36 hours lecture 72 hours lab <i>Advisory: ARCH 11 or equivalent experience</i> Architectural and interior illustration including perspective drawing, | Degree Applicable, CSU, UC 36 hours lecture 72 hours lab Advisory: ARCH 10, ARCH 11 taken prior | 54 hours lecture Development of modern architecture from the Renaissance to the present day. Influence of environment, religion and socio-economic movements on architecture. |
| sketching, shades and shadows, entourage, and color application utilizing various media and development of project portfolio. | Analysis and preparation of architectural presentation projects, including schematic and final design, architectural models, oral presentation | ARCH 89 — Architectural Work Experience 1 to 2 Units Degree Applicable |
| ARCH 14 — Building and Zoning Codes 3 Units Degree Applicable | techniques, board layouts using hand-drawn and computer-aided techniques, and development of project portfolio. | (May be taken four times for credit) (May be taken for Pass/No Pass only) |
| 54 hours lecture Advisory: ARCH 11 or equivalent experience Building and zoning codes, including code requirements related to architectural design and construction documentation. Process of obtaining design approvals and building permits from proper authorities having jurisdiction. | ARCH 26 — Architectural CAD Working Drawings 3 Units Degree Applicable 36 hours lecture 72 hours lab <i>Advisory: ARCH 15, ARCH 18 or equivalent experience</i> Advanced architectural CAD drawings. Portfolio of working drawing and | 75 to 150 hours lab Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog This course is designed to provide actual on-the-job experience in architecture at an approved work site which is related to classroom instruction. A minimum of 75 paid or 60 non-paid clock hours per |
| ARCH 15 — Architectural Working Drawings - I 3 Units Degree Applicable, CSU | presentation applications of integrated 2-D and 3-D CAD models will be produced. | semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed |
| 36 hours lecture 72 hours lab <i>Advisory: ARCH 11, ARCH 12, ARCH 14, and eligibility for MATH 51</i> Methods and techniques used in the development of architectural construction documents for light frame structures (Type V construction) including construction theory, practice, and working drawings. Portfolio will be produced. | ARCH 27 — Design III - Environmental Design 3 Units Degree Applicable, CSU, UC 36 hours lecture 72 hours lab Advisory: ARCH 21, ARCH 23 or equivalent experience Application of theory and principles of environmental design as applied to architecture, landscape architecture, urban design, urban planning | throughout the semester. This course is available to students achieving a minimum of 12 units in architecture. Students who repeat this course will improve skills through further instruction and practice. ART HISTORY AHIS 1 — Understanding the Visual Arts Degree Applicable, CSU, UC 54 hours lecture |
| ARCH 16 — Basic CAD and Computer Application 4 Units Degree Applicable, CSU, UC 54 hours lecture | and (civil) engineering. Portfolio will be produced. ARCH 28 — Architectural CAD 3-D Illustration and Animation 3 Units | <i>Prerequisite: Eligibility for ENGL 68</i> Fundamentals of visual art forms and the role art plays in various historical periods and cultures. Students may not earn credit for both |
| 54 hours lab Advisory: Eligibility for MATH 51 Basic CAD (Computer Aided Design and Drafting) and computer application in architecture, engineering and related fields (including basic word processing, spreadsheet, CAD and presentation applications). | Degree Applicable, CSU 36 hours lecture 72 hours lab <i>Advisory: ARCH 18 or equivalent experience</i> Intermediate to advanced architectural CAD in 3-D illustration, rendering and | AHIS 1 and ARTB 1. AHIS 1H — Understanding the Visual Arts - Honors 3 Units Degree Applicable, CSU, UC 54 hours lecture Prerequisite: Acceptance into the Honors Program |
| ARCH 18 — Architectural Computer Aided Design 3 Units Elements | animation. Virtual "walk-through" and "fly-through" of interior/exterior 3-D models with photo-realistic materials and lighting will be produced. | Fundamentals of visual art forms and the role art plays in various historical periods and cultures. An honors course designed to provide an |
| Degree Applicable 36 hours lecture 72 hours lab <i>Advisory: ARCH 11, ARCH 16 or equivalent experience</i> Intermediate CAD (Computer Aided Design and Drafting) specifically for architectural design and production. Portfolio of 2-D drawings and 3-D CAD models will be produced. | ARCH 29 — Design IV - Advanced Project 3 Units Degree Applicable, CSU 36 hours lecture 72 hours lab Advisory: ARCH 23, ARCH 27 or equivalent experience Advanced design seminars and complex building design projects in architecture, including portfolio development. Bill of the second se | enriched experience. Students may not receive credit for both AHIS 1 (formerly ARTA 1) and AHIS 1H. |

COURSE DESCRIPTIONS

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| AHIS 2 — Topics in Visual Art and Culture 3 Units Degree Applicable, CSU, UC S4 hours lecture Advisory: Eligibility for ENGL 1A A thematic introduction to selected works of art and visual culture, providing a framework for understanding the relationship between art and society and the differing ways art can be viewed. A global and/or interdisciplinary approach will be taken. Topics will vary with instructor. AHIS 2H — Topics in Visual Art and Culture - Honors 3 Units Degree Applicable, CSU, UC 54 hours lecture Prerequisite: Acceptance into the Honors Program A thematic introduction to selected works of art and visual culture, providing a framework for understanding the relationship between art and society and the differing ways art can be viewed. A global and/or interdisciplinary approach will be taken. Topics will vary with instructor. An honors course designed to provide an enriched experience. Students may not receive credit for both AHIS 2 (formerly ARTA 2) and AHIS 2H. AHIS 3 — History of Women and Gender in Art 3 Units Degree Applicable, CSU, UC 54 hours lecture Advisory: Eligibility for ENGL 1A Survey of the roles of women and gender in cultural creation and production with a focus on the visual arts. A historical and global survey, covering the role of women and gender in cultural creation and production with a focus on the visual arts. A historical and global survey, covering the roles of women and gender in cultural creation and production with a focus on the visual arts. A historical and global survey, covering the role of women and | Through Gothic - Honors(CAN ARTO2)Degree Applicable, CSU, UCCAN ART SEQ A54 hours lecturePrerequisite: Acceptance into the Honors ProgramWestern art from the Prehistoric through Gothic periods demonstrating the relationship of various visual art forms to each other and to the cultural context in which they were produced. This is an honors course designed to provide an enriched experience. Students may not receive credit for both AHIS 4 (formerly ARTA 4) and AHIS 4H.AHIS 5 — History of Western Art: Renaissance Through Modern3 Units Through Modern(CAN ARTO4)Degree Applicable, CSU, UC CAN ART SEQ A 54 hours lectureWestern art from the Renaissance through Modern periods, demonstrating the relationship of various visual art forms to each other and to the cultural context in which they were produced.AHIS 5H — History of Western Art-Renaissance Through Modern - Honors3 Units Through Modern - Honors(CAN ARTO4)Degree Applicable, CSU, UC CAN ART SEQ A 54 hours lectureVestern art from the Renaissance through Modern periods, demonstrating the relationship of various visual art forms to each other and to the cultural context in which they were produced.HIIS 6 — History of Modern Art easing the relationship of various visual art forms to each other and to the cultural context in which they were produced. An honors course designed to provide an enriched experience. Students may not receive credit for both AHIS 5 (formerly ARTA 5) and AHIS 5H.AHIS 6 — History of Modern Art easing the artistic movements, influences, and individuals who have formed the Modern tradition. Emphasis is on the 20th century; the international and multicultural character of Mode | AHIS 9 — History of Asian Art 3 Units Degree Applicable, CSU, UC 54 hours lecture An examination of Asian artistic traditions. Major monuments of painting, sculpture, architecture and other visual art forms are studied within their religious and cultural contexts. AHIS 10 — A History of Greek and Roman Art 3 Units and Architecture Degree Applicable, CSU 54 hours lecture Advisory: Eligibility for ENGL 68 A critical history of Greek and Roman art before 500 CE. Works of art and architecture will be examined in their cultural contexts. Historical perceptions of Classical art and culture and their impact on Europe and America will be studied. AHIS 11 — History of African, Oceanic, and Native American Art Degree Applicable, CSU, UC 54 hours lecture Advisory: Eligibility for ENGL 1A Examination of the traditional arts of African tribes and kingdoms, Oceania and Australia, and Native North America. Visual arts including painting, sculpture, architecture, body decoration, and ritual objects will be studied in their cultural contexts. AHIS 12 — History of Precolumbian Art 3 Units Major monuments of sculpture, painting, architecture, ceramics and textiles from civilizations including the Maya, Aztecs, and Inca will be studied in their cultural contexts. AHIS 12 — History of Precolumbian Art - Honors 3 Units Degree Applicable, CSU, UC |
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| 54 hours lecture <i>Prerequisite: Eligibility for ENGL 68</i> An examination of Western art from the Prehistoric through Gothic | Examines the artistic movements, influences, and individuals who have formed the Modern tradition. Emphasis is on the 20th century; the international and multicultural character of Modern art will be explored. | provide an enriched experience. Students may not receive credit for |

| AHIS 99 — Special Projects in Art History 2 Units Degree Applicable, CSU (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 36 hours lab Advisory: AHIS 1 (formerly ARTA 1) To offer selected students recognition for their academic interests and ability and the opportunity to explore their disciplines to greater depth, the various departments from time to time offer special projects courses. The content of each course and the methods of study vary from semester to semester and depend on the particular project under consideration. Students repeating this course will make individual contracts of a more advanced nature with the instructor to ensure that | ARTC 74 — Computer Graphics: Web Design 3 Units Degree Applicable, CSU 36 hours lecture 72 hours lab <i>Prerequisite: ARTC 70</i> <i>Advisory: COMP 13</i> Professional design concepts applied to the common elements of Web site design and development including page and site design, usability, editing and formatting, graphics preparation, multimedia technologies, tables, forms, frames, cascading style sheets (CSS). An emphasis will be placed on the exploration of new tools and concepts of Web design including Flash navigation, interactivity, animation, and video. | ARTC 165 — Illustration 3 Units Degree Applicable, CSU 36 hours lecture 72 hours lab <i>Corequisite: ARTD 20 or ARTD 15A or ARTD 17A or ANIM 104 (may have been taken previously)</i> Introduction to contemporary illustration with an emphasis on story, editorial, and advertising applications. Course covers the proper uses of illustrative rendering techniques in traditional drawing and painting media, paper, and their integration to electronic media. Using professional illustration software, peripherals, and color laser printing, students advance to produce more complex illustrations. |
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| proficiencies are enhanced. ART: ADVERTISING DESIGN/GRAPHICS ARTC 60 — Graphic Design: Lettering and Typography 3 Units Degree Applicable, CSU, UC 36 hours lecture 72 hours lab Prerequisite: Eligibility for ENGL 68 An entry level course emphasizing creative expression through a variation of design concepts, letter forms and style variation. Emphasis is placed on tools and techniques as applied to comprehensive graphic | ARTC 77 — Computer Graphics: Exploring Digital Illustration 3 Units Digital Illustration Degree Applicable 36 hours lecture 72 hours lab Prerequisite: ARTC 70 Advisory: ARTC 165 or ARTD 15A or ANIM 104 Basic principles of art, design and color. Theory as applied to digital hand illustration will be explored and original illustrations created through use of professional illustration software. ARTC 78A — Work Experience in Design/Illustration 1 to 3 UnitsAdvertising | ARTC 171 — Computer Graphics 2: Advanced Layout and Design 3 Units Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture 72 hours lab Prerequisite: ARTC 70 Advanced visual communication strategies related to digital layout and design in Advertising and Graphic Design. Introduces page layout, and image processing in preparation of newsletters, brochures, posters, and advertising collateral. Emphasis is placed on clarity of communication, design and technical skills. Software: Adobe Creative Suite, QuarkXpress. |
| design images. ARTC 66 — Portfolio 3 Units Degree Applicable 36 hours lecture 72 hours lab Prerequisite: Completion of a minimum of 15 semester units in Advertising Design, Architectural Design, Art, Fashion Merchandising, Industrial Design, Interior Design or Photographics This course aids individuals from any of the visual art disciplines to assemble a portfolio, book, or package of works of art (that represents their individual development, interests and/or strengths) for use to enter a four-year institution, professional art school, or a professional field of choice. ARTC 70 — Computer Graphics: Introduction 3 Units Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture 72 hours lab Introduces basic art, design and color theory principles to the application of 2-dimensional computer graphics. Explores basic computer concepts applied to graphic projects utilizing professional imaging software programs. Introduces the use of color scanner, digitized artist tablet, laser and color printers. Software: Adobe Photoshop, Adobe Illustrator. | Degree Applicable (May be taken four times for credit) (May be taken for Pass/No Pass only) 75 to 225 hours lab Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog Advisory: ARTC 66, ARTC 70, ARTC 74, ARTC 171 Provides students with on-the-job experience in advertising design, illustration and other graphic design and related areas in an approved worksite which is related to classroom-based learning. A minimum of 75 paid clock hours or 60 non-paid clock hours per semester is required for each unit of credit. It is recommended that the hours per week are equally distributed throughout the semester. Students who repeat this course will improve skills through further instruction and practice. ARTC 161 — Graphic Design:Layout 3 Units Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture 72 hours lab Prerequisite: ARTC 60 An introduction to the graphic design process with an emphasis on visual communication strategies that explore type and image, layout and design development, and the use of symbols related to the field of advertising and graphic design. The course uses various traditional media and layout design-related software to explore concept utilization and production, visualization, and professional presentation techniques. | ARTC 172 — Computer Graphics - Multimedia 3 Units Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture 72 hours lab Prerequisite: ARTC 70 An introduction to multimedia design and basic animation using Macromedia Director. Introduces text and sound editing, image manipulation, and interactive design principles in the preparation of presentations, animations, and informational kiosks. Emphasis is placed on clarity of communication, design, and technical skills. ART: ANIMATION ANIM 101 — Drawing - Gesture and Figure 3 Units Degree Applicable, CSU (May be taken four times for credit) 36 hours lecture 72 hours lab Explores contemporary and traditional approaches to sketching basic objects and the human figure using drawing techniques for rapid visualization. Emphasizes and develops perceptual and technical skills for capturing basic visual mechanics of motion and gesture. Students who repeat this course will improve skills through further instruction and practice. |

| Degree Applicable, CSU | ANIM 115 — Storyboarding 3 Units Degree Applicable | ANIM 120 — Script Development for Animation 3 Units Degree Applicable |
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| 72 hours lab 72 Emphasizes creative expression through the use of drawing media and techniques. Emphasis is placed on use of light logic, atmospheric and linear perspective. Includes basic drawing skills and methods of achieving compositional integrity through objective analysis and synthesis. 74 ANIM 107 — Figure in Motion 3 Units 74 MIM 107 — Figure in Motion 3 Units 74 CMay be taken four times for credit) 36 hours lecture 36 72 hours lab 74 74 Prerequisite: ANIM 101 75 76 Drawing human figures in motion. Anatomical landmarks, proportion, light and shadow, line composition, figure/ground relationship, the interaction of form and content, and the expressive potential of the human figure will be explored. Students who repeat this course will improve skills through further instruction and practice. 36 ANIM 108 — Principles of Animation 3 Units 3 26 hours lecture 77 77 72 hours lab Prizze Applicable 36 ANIM 109 — Advanced Principles of Animation 3 Units 30 26 hours lecture 72 72 72 72 hours lab Prizze Applicable 36 86 hours lecture 77 77 72 hours lab 9 <td>36 hours lecture 72 hours lab Analysis and production of environments for scenes in animation. Emphasis on the study of light logic and color as they pertain to the creation of atmosphere, mood and environments. ANIM 119 — Portfolio 1.5 Units Degree Applicable 18 hours lecture 36 hours lab Advisory: ANIM 115 and ANIM 116</td> <td>54 hours lecture Creative and problem solving processes as applied to story and script development. Scripts screenplays, live action and animated film, and the practical application of story adaptation to screenplay. ANIM 130 — Introduction to 3-D Computer Animation 3 Units Degree Applicable 36 hours lecture 72 hours lab Explores 3-D computer animation interfaces, use of polygons, perspective views, contouring, links, external processors for special computer effects, and using the Alias MAYA software. 3-D modeling, rendering, and animation of primitive and complex poly-spline meshes used in environments, and following a story board developed for scene sequencing are included. ANIM 132 — Modeling, Texture Mapping and Lighting 3 Units Degree Applicable 36 hours lecture 72 hours lab Explores 3-D poly-spline modeling and texture mapping and rendering for realistic perspective, reflections, transparency, and background and environmental building using the Alias MAYA software. Includes camera animation with stage and environmental scenes featuring fly-throughs and colored lighting effects. ANIM 134 — Visual Effects I: Dynamics 1.5 Units Degree Applicable 18 hours lecture 3-D objects using bitmaps to creat texture maps and using light effects in 3-D optient suight bitmaps to creat texture maps and using light effects in 3-D computer environments. ANIM 135 — Visual Effects II: Particle Systems 1.5 Units Degree Applicable 18 hours lecture 36 hours lab Advisory: ANIM 132<!--</td--></td> | 36 hours lecture 72 hours lab Analysis and production of environments for scenes in animation. Emphasis on the study of light logic and color as they pertain to the creation of atmosphere, mood and environments. ANIM 119 — Portfolio 1.5 Units Degree Applicable 18 hours lecture 36 hours lab Advisory: ANIM 115 and ANIM 116 | 54 hours lecture Creative and problem solving processes as applied to story and script development. Scripts screenplays, live action and animated film, and the practical application of story adaptation to screenplay. ANIM 130 — Introduction to 3-D Computer Animation 3 Units Degree Applicable 36 hours lecture 72 hours lab Explores 3-D computer animation interfaces, use of polygons, perspective views, contouring, links, external processors for special computer effects, and using the Alias MAYA software. 3-D modeling, rendering, and animation of primitive and complex poly-spline meshes used in environments, and following a story board developed for scene sequencing are included. ANIM 132 — Modeling, Texture Mapping and Lighting 3 Units Degree Applicable 36 hours lecture 72 hours lab Explores 3-D poly-spline modeling and texture mapping and rendering for realistic perspective, reflections, transparency, and background and environmental building using the Alias MAYA software. Includes camera animation with stage and environmental scenes featuring fly-throughs and colored lighting effects. ANIM 134 — Visual Effects I: Dynamics 1.5 Units Degree Applicable 18 hours lecture 3-D objects using bitmaps to creat texture maps and using light effects in 3-D optient suight bitmaps to creat texture maps and using light effects in 3-D computer environments. ANIM 135 — Visual Effects II: Particle Systems 1.5 Units Degree Applicable 18 hours lecture 36 hours lab Advisory: ANIM 132 </td |

| ANIM 136 — Animation Environment Layout 3 Units Degree Applicable 36 hours lecture 72 hours lab Advisory: ANIM 132 Create an environment project: design, model, texture, and light an environment for a computer graphics game or film. ANIM 137A — Work Experience in New Digital Media 1 to 3 Units Degree Applicable (May be taken four times for credit) (May be taken for Pass/No Pass only) 75 to 20 hours lab | ANIM 172 — Motion Graphics With After Effects 3 Units Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture 72 hours lab <i>Prerequisite: ARTC 70</i> Explores the creative and technical processes for building motion- graphics using After Effects and/or other industry appropriate software. 2D and 3D compositing, animation, audio/visual effects, editing and rendering of motion-graphics for video, CD and DVD formats will be taught. | ARTG 21A — Introduction to Exhibition Production 3 Units Degree Applicable, CSU 36 hours lecture 72 hours lab Prerequisite: ARTG 20 Designed to familiarize all art majors and serious artists with the concepts and hands-on applications of curatorial processes, management skills, and gallery operations. Explores the professional side of the arts, emphasizing contemporary art, theories and media. ARTG 21B — Intermediate Exhibition Production 3 Units Degree Applicable, CSU |
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| 75 to 225 hours lab Advisory: Completion of the first and second semester of the Animation Program This course is designed to provide actual on-the-job experience in Animation at an approved work site which is related to classroom instruction. A minimum of five hours per week of supervised work (60 non-paid clock hours or 75 paid clock hours per semester) is required for each one unit of credit. Students who repeat this course will improve skills through further instruction and practice. | 36 hours lecture 72 hours lab <i>Prerequisite: ARTC 70</i> Principles and design considerations of animation for the Web will be explored and developed through use of professional Web animation software. | 36 hours lecture 72 hours lab Prerequisite: ARTG 21A Provides increasing responsibility in exhibition planning, research, operation and management. Focuses on art as a profession with emphasis on historical/contemporary terms, theories, movements and media in the context of an art exhibition production. ARTG 22A — Exhibition Design and Art Gallery 1 to 2 Units Operation Work Experience 1 |
| ANIM 145 — Advanced 3-D Modeling 3 Units Degree Applicable 36 hours lecture 36 hours lecture 72 hours lab Advisory: ANIM 132 An advanced course in 3-D modeling with a focus on designing, modeling, and rigging a character for animation. ANIM 146 — Advanced 3-D Animation 3 Units Begree Applicable 36 hours lecture | ART: BASIC STUDIO ARTS ARTB 1 — Understanding the Visual Arts Begree Applicable, CSU, UC 54 hours lecture Prerequisite: Eligibility for ENGL 68 Fundamentals of visual art forms and the role art plays in various historical periods and cultures. Students may not earn credit for both ARTB 1 and AHIS 1. ARTB 14 — Basic Studio Arts Degree Applicable, CSU, UC | Degree Applicable (May be taken four times for credit) 75 to 150 hours lab <i>Prerequisite: ARTG 20, ARTG 21A, ARTG 21B</i> Provides on-the-job experience in exhibition design and art gallery operation in an approved work site which is related to classroom-based learning. A minimum of 75 paid clock hours or 60 non-paid clock hours per semester is required for each one unit of credit. It is recommended that the hours per week are equally distributed throughout the semester. Students who repeat this course will improve skills through further instruction and practice. |
| 72 hours lab Advisory: ANIM 132 Animation of a pre-selected 3-D dynamic environment project and development of characteristics and personality of 3-D characters through animation. ANIM 148 — Demo-Reel (May be taken four times for credit) 18 hours lecture | 36 hours lecture 72 hours lab <i>Prerequisite: Eligibility for ENGL 68</i> An entry level course designed for non-art majors emphasizing creative expression through the visual arts. Painting, drawing, printmaking and sculpture are explored to introduce the student through various media to the arts. ART: GALLERY AND PROFESSIONAL PRACTICES | ART: SPECIAL STUDIO ARTS ARTZ 50 — Specialized Studio-Art Studies Degree Applicable, CSU, UC (May be taken four times for credit) 18 hours lecture 54 hours lab Prerequisite: Satisfactory completion of all courses within a given art emphasis |
| 36 hours lab <i>Prerequisite: ANIM 130</i> Production of a demo-reel representative of student interest, strength and skill for entry into animation fields, professional schools or baccalaureate institutions. Students who repeat this course will improve skills through further instruction and practice. | ARTG 20 — Art, Artists and Society 3 Units Degree Applicable, CSU 36 hours lecture 72 hours lab Explores art as a creative process and the role of an artist in contemporary and past societies approached through analysis of art exhibitions and artist studio visitations. Emphasis on visual principles and content of historic and contemporary art works. Examines the dynamic and history of public art display and the nature of exhibition design with an overview of art movements, styles, symbols, theories and terms. | Extended studio experiences supplementary to those available in the courses within a given art emphasis and allows the student to pursue more advanced and complex studio projects and experiments. Emphasis is placed upon the development of an individual creative direction. Students repeating this course will make individual contracts of a more advanced nature with the instructor to ensure that proficiencies are enhanced. |

| ARTD 17A — Drawing: Life3 Units(CAN ART24)Degree Applicable, CSU, UC36 hours lecture72 hours labPrerequisite: ARTD 15A or ANIM 104Explores both contemporary and traditional approaches to sketching/drawing the human figure. Surface anatomy, proportion, line, light and shadow, composition, and the expressive potential of the human figure will be explored. | ARTD 25A — Painting: Beginning 3 Units (CAN ART10) Degree Applicable, CSU, UC 36 hours lecture 72 hours lab Emphasizes creative self-expression through the painting media. Students will develop the ability to conceptualize and solve compositional and technical painting problems. ARTD 25B — Painting: Beginning 3 Units Degree Applicable, CSU, UC Degree Applicable, CSU, UC 3 Units | ARTD 43 — Introduction to Printmaking (CAN ART20)3 Units Degree Applicable, CSU, UC (May be taken four times for credit) 36 hours lecture 72 hours lab Introduction to creative techniques in fine art printmaking using relief and intaglio projects. Emphasis is on developing skills, vocabulary and critical understanding and analysis of its aesthetics, historical context, cultural traditions and craftsmanship through projects, discussion and ametherized intermediation. |
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| ARTD 17B — Drawing: Life 3 Units Degree Applicable, CSU, UC 36 hours lecture 72 hours lab <i>Prerequisite: ARTD 17A</i> Extends and expands the principles and techniques introduced in ARTD 17A. More emphasis is placed on personal interpretation, individual expression, and media exploration. | 36 hours lecture 72 hours lab <i>Prerequisite: ARTD 25A</i> An extension and expansion of principles and techniques introduced in ARTD 25A. More emphasis is placed on personal approach and individual expression. ARTD 26A — Painting: Intermediate 3 Units | oral/written criticism. ARTD 44 — Printmaking: Relief and Lithography 3 Units (CAN ART20) Degree Applicable, CSU, UC 36 hours lecture 72 hours lab Prerequisite: ARTD 43 Creative techniques in fine art printmaking focusing on lithography. The possibilities of combination of planographic with relief methods will be |
| ARTD 20 — Design: Two Dimensional 3 Units Degree Applicable, CSU, UC 36 hours lecture 72 hours lab Development of perception through study of the relationships of two-dimensional dynamics and organization. Emphasis is placed on the vocabulary, theory, and analysis of the formal elements and principles of all forms of art through lecture, discussion, oral and written criticism and testing as they apply to studio projects in design for all disciplines of the arts. Study will emphasize the fundamental organization and workings of the two-dimensional picture plane in black/white and | Prerequisite: ARTD 25B Develop a working knowledge of painting media. Painting problems are studied in order to broaden the student's knowledge of painting organization. ARTD 26B — Painting: Intermediate 3 Units Degree Applicable, CSU, UC 36 hours lecture 72 hours lab | explored. Emphasis is on developing skills, vocabulary and critical understanding and analysis of its aesthetics, historical context and craftsmanship through projects, discussion and oral/written criticism. ARTD 45 — Printmaking: Collagraph/Monotype/ Silkscreen Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture 72 hours lab Prerequisite: ARTD 43 Creative techniques in fine art printmaking using collagraphs, |
| achromatic value and basic color mixing. ARTD 21 — Design: Color and Composition 3 Units (CAN ART22) Degree Applicable, CSU, UC 36 hours lecture 72 hours lab Prerequisite: ARTD 20 or equivalency determined by a portfolio review Synthesizes color theory and relationships of pigment and light. Emphasis will be placed on fundamental color harmonies, color matching, the effects of light, color perception and expression in their application to design and composition and as they are used in all other disciplines of the arts. | Prerequisite: ARTD 26A Extends and expands the principles, techniques and painting problems that were introduced in ARTD 26A. More emphasis is placed on personal approach and expression. ARTD 27 — Painting: Watercolor 3 Units Degree Applicable, CSU, UC (May be taken two times for credit) (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture 72 hours lab Prerequisite: ARTD 15A or ARTD 20 or ARTD 25A Basic watercolor techniques as they relate to compositional and | monotypes, monoprints and stencil projects. Emphasis is on developing skills, vocabulary and critical understanding and analysis of mixed media printmaking's aesthetics, historical context and craftsmanship through projects, discussion and oral/written criticism. ASTRONOMY ASTR 5 — Introduction to Astronomy 3 Units Degree Applicable, CSU, UC 54 hours lecture Prerequisite: Eligibility for ENGL 1A A non-technical survey of the Universe. Fundamental concepts and facts of astronomy. Topics include the origin and evolution of planets, stars, |
| ARTD 23A — Drawing: Head and Hands 1.5 Units Degree Applicable, CSU, UC (May be taken two times for credit) 18 hours lecture 36 hours lab <i>Prerequisite: ARTD 15A or ANIM 104</i> Contemporary and traditional approaches to constructing images of the human head and hands. Anatomy, proportion, light logic, composition, expression and the interaction of form and content. Students who repeat this course will improve skills through further instruction and practice. | technical problems in painting. Emphasis is placed upon painting skills as related to transparent watercolor methods as well as exploration into opaque and mixed-media approaches. Students who repeat this course will improve skills through further instruction and practice. | and galaxies; results of space exploration and modern cosmology. Enroll in ASTR 5L to receive laboratory science credit. Field trips may be required. |

| BIOL 12B — Natural History of California 3 Units | BIOL 21 — Marine Biology Laboratory 1 Unit | ΒΟΤΑΝΥ |
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| Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture 54 hours lab Field study of Peninsular Ranges, Transverse Ranges, Mojave and Colorado Deserts of southern California. Laboratory work is done during one 3-day and one 4-day weekend field trip. Students may not receive credit for both BIOL 12B and GEOL 12B. | Degree Applicable, CSU, UC 54 hours lab <i>Corequisite: BIOL 20 (may have been taken previously)</i> An introduction to the field and laboratory aspects of the marine environment. Emphasizes the structure and functional biology of marine invertebrates and vertebrates, ecology of intertidal organisms and ecology of estuaries. Field trips required. | BTNY 3 — Plant Structures, Functions, and Diversity 5 Units (CAN BIOLO6) Degree Applicable, CSU, UC 54 hours lecture 108 hours lab 108 hours lab Advisory: BIOL 1 or BIOL 4 and Eligibility for ENGL 1A An introduction to the structures, functions and comparative morphology, and phylogenetic relationships of organisms from bacteria |
| BIOL 13 — Human Reproduction, Development and Aging 3 Units Degree Applicable, CSU, UC 54 hours lecture Prerequisite: Eligibility for ENGL 68 Provides a basic understanding of human development, from conception to death. Conception, growth, maturation and aging are | BIOL 34 — Fundamentals of Genetics 3 Units Degree Applicable, CSU, UC 54 hours lecture Prerequisite: BIOL 4 Explores theory and applications of genetics. Major topics include Mendelian and molecular genetics, mechanisms of inheritance, gene expression, linkage and chromosome mapping, mutations and | to angiosperms with an emphasis on ethnobotany, evolution, classification, ecology and conservation. Several laboratory meetings are mandatory field trips, conducted off-campus, and students provide their own transportation. BUSINESS: ACCOUNTING BUSA 7 — Principles of Accounting - Financial 5 Units |
| studied as a natural continuum, influenced by our bio-physical and psycho-social environment. Several off-campus sites, related to course content, will be visited. BIOL 15 — Human Sexuality 3 Units | evolution, population genetics, and ethical and moral implications of DNA technology. BIOL 50 — Biology Basic Skills .5 Unit Not Degree Applicable | (CAN BUS02) Degree Applicable, CSU, UC CAN BUS SEQ A 90 hours lecture Prerequisite: BUSA 11 or eligibility for MATH 51 |
| Degree Applicable, CSU, UC 54 hours lecture <i>Prerequisite: Eligibility for ENGL 68</i> A survey of the biological, behavioral, cultural and ethical aspects of human sexuality. | (May be taken for Pass/No Pass only) 9 hours lecture Basic skills needed for students to succeed in biological science classes. Topics include a contrast of the academic demands of science to non- science disciplines, preparation for biological laboratory experiences as well as lectures, development of personal study plan to manage the | Advisory: Eligibility for ENGL 1A Introduction to financial accounting required of all Business Administration and Accounting majors which provides the foundation for continued coursework in accounting. Includes accounting concepts and techniques essential to the administration of a business enterprise, analyzing and recording financial transactions, accounting valuation and |
| BIOL 15H — Human Sexuality - Honors 3 Units Degree Applicable, CSU, UC 54 hours lecture <i>Prerequisite: Acceptance into the Honors Program</i> A survey of the biological, behavioral, cultural and ethical aspects of human sexuality. An honors course designed to provide an enriched experience. Students may not receive credit for both BIOL 15 and BIOL | large volume of information, interpretation of biological graphs and diagrams, introduction to common Latin and Greek words to build vocabulary, use of memorization techniques, application of test-taking strategies for biological exams, especially lab practica, and analysis of test results. These techniques and strategies will be discussed using biological concepts and vocabularies as examples. Recommended to be taken concurrently with any biological science class. | allocation practices and the preparation, analysis and interpretation of financial statements. Gives the student the tools and methods needed for decision making. BUSA 8 — Principles of Accounting - Managerial 5 Units (CAN BUS04) Degree Applicable, CSU, UC CAN BUS SEQ A 90 hours lecture |
| 15H. BIOL 17 — Neurobiology and Behavior 3 Units Degree Applicable, CSU, UC 54 hours lecture An integrated analysis of the biological, ecological and evolutionary bases of behavior (ethology.) Historical and evolutionary contexts are emphasized through a detailed consideration of the psychobiological, ecological, ontological and sociobiological determinants of animal behavior. Field trips may be required. | BIOL 99A — Special Projects in Biology 1 to 2 Units Degree Applicable, CSU (May be taken four times for credit) 18 to 36 hours lecture In order to offer students recognition for their academic interests and ability and the opportunity to explore their disciplines to greater depth, the various departments from time to time offer Special Projects courses. The content of each course and the methods of study vary from semester to semester and depend on the particular project under | Prerequisite: BUSA 7 Review of managerial accounting, job and process costing, cost-volume- profit analysis, cost behavior analysis and use, cost allocation, the budgeting process, responsibility accounting in a decentralized operation, standard costing, pricing decisions, relevant costs for decision making, segment reporting, variable costing, capital budgeting decisions, inventory management and analysis, and financial statement analysis. Gives the student the tools and methods needed for decision making. |
| BIOL 20 — Marine Biology 3 Units Degree Applicable, CSU, UC 54 hours lecture An introduction to the marine environment including the principles of marine science, biology of marine invertebrates and vertebrates, structure and function of marine ecosystems, and human impact on the ocean. Field trip required. | consideration. Students must have instructor's authorization before enrolling in this course. Students repeating this course will make individual contracts of a more advanced nature with the instructor to insure that proficiencies are enhanced. | BUSA 11 — Fundamentals of Accounting 3 Units Degree Applicable 54 hours lecture Prerequisite: BUSA 68 or eligibility for MATH 50 Accounting vocabulary and theory, equations to solve word problems, percentages, simple and compound interest, payroll, business taxes, present value, investments, inventory, depreciation, financial statement analysis and ratios. |

| Reviews addition, subtraction, multiplication, division, decimals, percentages, fractions, sign numbers, equations and problem solving. Analyze financial data and prepare managerial accounting reports using Excel software. Development of "what-if" formulas to be used as an aid in decision-making. Manufacturing and consolidation worksheets, financial statement analysis, and statement of cash flows. Reviews flows. |
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| BUSC 1BH — Principles of Economics - Microeconomics 3 Units - Honors | BUSL 20 — International Business Law 3 Units Degree Applicable | BUSM 50 — World Culture: A Business Perspective 3 Units Degree Applicable, CSU |
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| (CAN ECON04) Degree Applicable, CSU, UC 54 hours lecture <i>Prerequisite: BUSC 1A or BUSC 1AH</i> Economic analysis with emphasis on price and distribution theory, correit operaturity costs curply demand electricity cost theory price | Advisory: Eligibility for ENGL 68 A comparative approach to the study of the international legal environment for business. Cultural, political, economic and ethical issues | 54 hours lecture An overview of the effects of culture on business communication and interaction. Cultural roles and components are described and related to the business environment and the student's own culture. |
| scarcity, opportunity costs, supply, demand, elasticity; cost theory; price and output determination under various market structures; factor markets; public choice, income distribution, externalities and government regulations; comparative economic systems. An honors course designed to provide an enriched experience. Students may not receive credit for both BUSC 1B and BUSC 1BH. | are emphasized as well as traditional business law subjects such as sales, commercial paper, corporate law, agency, licensing, employment, crimes, trade regulation and technology transfers. BUSINESS: MANAGEMENT BUSM 10 — Principles of Continuous Quality 3 Units | BUSM 51 — Principles of International Business 3 Units Degree Applicable, CSU 54 hours lecture Advisory: Eligibility for ENGL 68 or BUSO 5 An overview of the rapidly changing international business environment, designed to provide a global perspective. Introduces |
| BUSC 17 — Applied Business Statistics 3 Units Degree Applicable, CSU, UC 54 hours lecture Prerequisite: MATH 71 Statistical reasoning and application of primary statistical techniques | Improvement Degree Applicable 54 hours lecture Advisory: Eligibility for ENGL 68 or BUSO 5 History and evolution of thought in Continuous Quality Improvement, | global viewpoints across the full spectrum of business functions, including, but not limited to: accounting, finance, human resources, management, operations, production, purchasing, and strategic planning. |
| used in solving managerial problems. Topics include: collection and interpretation of data, measures of central tendency and dispersion, probability distributions, sampling and estimation, hypothesis testing, analysis of variance, linear regression and correlation and index | including the theories and methods of Deming, Juran and Crosby. The quality management process and tools for the continuous improvement of quality are presented. Relevant case studies are included. BUSM 12 — Continuous Quality Improvement Team 3 Units | BUSM 52 — Principles of Exporting and Importing 3 Units Degree Applicable, CSU 54 hours lecture Advisory: Eligibility for ENGL 68 or BUSO 5 54 hours lecture |
| numbers. BUSINESS: LAW | Building Degree Applicable (May be taken for option of letter grade or Pass/No Pass) | Acquaints the student with the vocabulary, acronyms and the basic information needed for an understanding of and participating in the exporting and importing of goods and services. |
| BUSL 18 — Business Law3 Units(CAN BUS08)Degree Applicable, CSU, UC54 hours lecturePrerequisite: Eligibility for ENGL 68Principles of business law emphasizing legal setting of business, nature of the law and court procedure, principles of contract law, sales of goods under the Uniform Commercial Code, personal property, bailments, and | 54 hours lecture Advisory: BUSM 10 Comprehensive instruction in building and using Continuous Quality Improvement project teams including selection of team members and evaluation of team performance. Includes creating and evaluating problem solutions, applying tools for improvement planning, team decision making, and building an effective improvement plan. | BUSM 60 — Human Relations in Business 3 Units Degree Applicable, CSU 54 hours lecture Behavior, personality, self-management, self-development, and elementary business psychology as an aid to furthering the student's business advancement and lifelong learning. Class discussions focus on the student's understanding of intrapersonal and interpersonal |
| secured transactions. BUSL 18H — Business Law - Honors (CAN BUS08) Degree Applicable, CSU, UC | BUSM 20 — Principles of Business 3 Units Degree Applicable, CSU, UC 54 hours lecture | effectiveness with emphasis on communications, motivation, leadership and other related areas. |
| (CAN BUS08) Degree Applicable, CSU, UC 54 hours lecture <i>Prerequisite: Acceptance into the Honors Program</i> Principles of business law emphasizing legal setting of business, nature of the law and court procedure, principles of contract law, sales of goods under the Uniform Commercial Code, personal property, bailments, and secured transactions. An honors course designed to provide an enriched | Prerequisite: Eligibility for ENGL 68 Study of business and its functions, background, development, organization, and opportunities. Business terms, current trends, methods, contemporary and future problems, and current business practices are covered. | BUSM 61 — Business Organization and Management 3 Units Degree Applicable, CSU 54 hours lecture Advisory: BUSM 20 Functions of management, techniques of decision making and problem solving, and methods used by the manager to achieve organizational goals. Various theories of management, lines of authority, functions of departments, |
| experience. Students may not receive credit for both BUSL 18 and BUSL 18H. | BUSM 25 — Principles of E-Commerce 3 Units Degree Applicable 54 hours lecture | and the importance of policies, procedures, and controls are discussed. BUSM 62 — Human Resource Management 3 Units |
| BUSL 19 — Advanced Business Law3 Units Degree Applicable, CSU, UC54 hours lectureAdvisory: BUSL 18Principles of business law emphasizing commercial paper, agency, partnerships, corporations, bankruptcy, regulation of trade and real property. | | Degree Applicable 54 hours lecture Direction of people including guidance, control supervisory problems, training, job analysis interviewing, testing, rating, and other functions involving human resources. Designed to improve the overall understanding of the relationship between the individual and the business organization. |

| BUSM 66 — Small Business Management 3 Units Degree Applicable, CSU 54 hours lab Practical problems encountered in organizing and operating a small business enterprise: initiating the business, financial and administrative control, legal and government relationships and other related considerations. BUSM 81 — Work Experience in Business 1 to 4 Units Degree Applicable (May be taken four times for credit) (May be taken for Pass/No Pass only) 75 to 300 hours lab Corequisite: BUSM 20 (may have been taken previously) | BUSO 26 — Oral Communications for Business 3 Units Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture Designed to help business people communicate more effectively in spoken communication situations such as training sessions, presentations, and professional discussions. BUSO 96A — Business Vocabulary 1.5 Units Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 27 hours lecture Develops a broad word command of new and specialized business vocabulary to | PLGL 33B — Civil Procedure-Trial and Post-Trial 3 Units Degree Applicable, CSU 54 hours lecture Prerequisite: PLGL 33A Preparing for litigation. Includes discovery, preparation of law and motion documents, remedies, summary judgments, motions to dismiss, settlements, and arbitration. PLGL 35A — Law Office Procedures 3 Units Degree Applicable, CSU 54 hours lecture Advisory: PLGL 30 Examines procedures utilized by a paralegal in a law office. Includes knowledge of court systems, preparation and filing of legal papers and |
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| Provides business students with actual on-the-job experience in an approved worksite which is related to classroom-based learning. A minimum of 75 paid clock hours or 60 non-paid clock hours per semester is required for each one unit of credit. Work experience placement is not guaranteed but assistance is provided. Students who repeat this course will improve skills through further instruction and practice. | enhance written and oral communication BUSINESS: PARALEGAL PLGL 30 — Introduction to Paralegal/Legal S4 hours lecture Basic knowledge required of paralegals. An overview of the federal and | court documents, and drafting specialized documents in such areas as estate planning, real estate, divorce, unlawful detainer, adoption, corporations, conservatorships and guardianships. PLGL 35B — Automated Law Office Procedures 54 hours lecture 54 hours lecture |
| BUSM 85 — Special Issues in Business 2 Units Degree Applicable (May be taken two times for credit) (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture Provide business majors with a forum to gain knowledge, develop | state legal systems, the relationship of paralegals to attorneys, an introduction to legal writing and research investigation of claims and legal ethics. PLGL 31A — Legal Analysis and Writing 3 Units Degree Applicable, CSU 54 hours lecture | Prerequisite: PLGL 35A Corequisite: PLGL 30 (may have been taken previously) Advisory: CISB 15 or equivalent computer experience Use of the personal computer for special purposes in the law office; includes the drafting of pleadings, legal research, document control, preparation of billing, law office and case load management, and tax reports. |
| techniques, problem solve and implement an actual business plan. Special emphasis will be placed on the particular project of the actual business used as the class project. Students who repeat this course will improve skills through further instruction and practice. BUSINESS: OFFICE TECHNOLOGY | Corequisite: PLGL 30 or BUSL 30 (may have been taken previously) Use of a law library for legal research and references, reading and analyzing codes and statutes, and preparation of case briefs and research reports. PLGL 31B — Advanced Legal Analysis and Writing 3 Units | PLGL 36 — Paralegal Internship 1 Unit (May be taken four times for credit) Degree Applicable (May be taken for Pass/No Pass only) 75 hours lab |
| BUSO 5 — Business English 3 Units Degree Applicable 54 hours lecture Prerequisite: Eligibility for ENGL 68 Thorough training in the skills and techniques of English, as applied to business situations, with emphasis on effective paragraphs and memos. BUSO 25 — Business Communications 3 Units Degree Applicable, CSU | FLGL 316 — Advanced Legal Analysis and Writing 5 ontos Degree Applicable, CSU 54 hours lecture Prerequisite: PLGL 30 and PLGL 31A Preparation of research memoranda, trial briefs, appellate briefs and other paralegal documents. Continuation of PLGL 31A, Legal Analysis and Writing. PLGL 33A — Civil Procedure Pretrial 3 Units Degree Applicable, CSU | Prerequisite: PLGL 31A, PLGL 33A, and PLGL 35A Corequisite: PLGL 31B, PLGL 33B, PLGL 35B, PLGL 37, PLGL 39 (may have been taken previously) Designed to provide the student with actual on-the-job experience in the paralegal profession which relates to student's classroom based learning. Placement is not guaranteed but assistance is provided by the paralegal faculty. A minimum of five hours per week of supervised work (minimum 75 paid clock hours or 60 non-paid clock hours per semester) is required. Students who repeat this course will improve |
| 54 hours lecture <i>Prerequisite: ENGL 1A</i> Written communications including letters and memos meeting a variety of situations in the business environment. Includes writing of good news, bad news, sales, claims, and persuasive correspondence; letters and resumes appropriate to job seeking and application; and practicing oral skills as applied to job interviews and business reports. | 54 hours lecture <i>Corequisite: PLGL 30 (may have been taken previously)</i> Analysis of the pretrial procedural steps to litigating a cause of action. Examines the concepts of jurisdiction, venue, parties to the action, summons, default judgments, and pleadings. | skills through further instruction and practice. PLGL 37 — Tort Law 3 Units Degree Applicable, CSU 54 hours lecture Analysis of the law of torts including intentional torts such as assault, battery, false imprisonment, defamation, privacy, trespass and nuisance, negligence, and strict liability. Examination of insurance defense issues. |

COURSE DESCRIPTIONS

| PLGL 38 — Employment and Ethical Issues 2 Units | PLGL 45 — Creditors' Rights 3 Units | BUSINESS: REAL ESTATE |
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| in Paralegalism Degree Applicable 36 hours lecture Prerequisite: PLGL 31A, PLGL 33A, and PLGL 35A Corequisite: PLGL 31B, PLGL 33B, PLGL 35B, PLGL 37, PLGL 39 (may have been taken previously) | Degree Applicable, CSU 54 hours lecture Creation, perfection, and enforcement of security interests in property. Unsecured creditors and their methods of enforcing rights and obtaining judgments. | BUSR 50 — Real Estate Principles 3 Unit Degree Applicable, CS 54 hours lecture Introductory real estate law, public control, property valuation, finance and real estate practice. Meets some of the California Real Estate |
| Job search skills including preparation of professional resumes and cover letters. interviewing techniques, networking, application of these skills in beginning the search for paralegal employment, and paralegal and attorney ethics. | PLGL 47A — Litigation Procedures 3 Units Degree Applicable 54 hours lecture Overview of litigation procedures. Description of a trial and trial presentations are emphasized. Preparation of opening statements, direct | Salesperson and Broker License requirements and meets 30 hours toward Basic Appraisal Procedures 2008 Appraiser Qualifications Board (AWB) requirements for certified-residential/certified-general appraiser license. Also provides 30 hours toward office of real estate Appraisers (OREA) requirements for state licensing. |
| PLGL 39 — Contract Law 3 Units Degree Applicable, CSU 54 hours lecture Laws relating to the formation of contracts. Includes study of the | and cross examinations, and closing statements. Elements of oral argument are examined. Methods of responding to questioning are analyzed. | BUSR 51 — Legal Aspects of Real Estate 3 Unit Degree Applicabl 54 hours lecture Prerequisite: BUSR 50 or employment in the real estate field |
| statute of frauds, third-party rights, liability for breach of contract, remedies, discharge, and the Uniform Commercial Code. PLGL 40 — Landlord-Tenant Law 3 Units | PLGL 47B — Litigation Practice 1.5 Units Degree Applicable 27 hours lecture Students will present a case and evaluate the effectiveness of their | Real estate contracts, leases, deeds, foreclosures, homesteads, agency, and disclosures. Can be used to meet the additional educational requirements for the salesperson or broker license. |
| Degree Applicable, CSU 54 hours lecture Landlord-tenant law and creation of legal documentation to represent | presentation. Continuous revision of opening arguments, closing arguments, direct examinations, and cross-examinations. PLGL 48 — Criminal Law and Procedures 3 Units | BUSR 52 — Real Estate Practice 3 Unit Degree Applicabl |
| the landlord-tenant relationship. Examination of the rights and liabilities of the landlord and the tenant. PLGL 41 — Property Law 3 Units | Degree Applicable, CSU 54 hours lecture General principles of criminal law and procedure, elements of crimes | Corequisite: BUSR 50 (may have been taken previously) or employment in the real estate field Office procedures and practices in listings, advertising, prospecting, |
| Degree Applicable, CSU 54 hours lecture Examination of the law relating to real and personal property. Analysis | against person and property, parties to a crime, defenses to crimes. Analysis of procedural law relating to arrest, search and seizure, rights to counsel and a jury, evidentiary issues, sentencing and appeal. | financing, exchanges, property management, salesmanship, land utilization and public relations. A course in real estate practice must be completed within 18 months of licensure. |
| of the various forms of ownership of real property; easements, covenants, conditions, and licenses; constitutional questions; types of real estate deeds; and land use controls. | PLGL 49 — Evidence Law 3 Units Degree Applicable, CSU 54 hours lecture | BUSR 52D — Real Estate Practice Work Experience 3 Unit Degree Applicabl (May be taken four times for credit) |
| PLGL 42 — Family Law 3 Units Degree Applicable, CSU 54 hours lecture Laws relating to marriage, dissolution, nullity, and legal separation. Includes topics of community property, child custody, child support, spousal support, and prenuptial/antenuptial agreements. | Overview of evidence law in civil and criminal cases: principles of relevance and competence of evidence; hearsay and character evidence rules; evidentiary privileges; use and authentication of writings. Use of evidence at trial, burdens of proof and presumptions, constitutional issues. | 225 hours lab Corequisite:BUSR 50 and not possessing a permanent California real estate license at time of enrollment. Student must be enrolled in seven units minimum including work experience units. Provides a minimum of 180 hours of on-site real estate office and/or field work experience under the supervision of a licensed California real |
| PLGL 43 — Wills and Trusts 3 Units Degree Applicable, CSU 54 hours lecture | PLGL 50 — Comparative Law 3 Units Degree Applicable | estate professional and a college instructor/coordinator. Designed to satisfy Department of Real Estate licensing requirements serving as an equivalent to BUSR 52. Students who repeat this course will improve |
| Legal principles of the laws of wills and trusts, organization and jurisdiction of the California Probate Courts, estate planning and estate taxes. | Advisory: Eligibility for ENGL 1A A comparison of the traditions and legal systems of various nations. Specific legal concepts and principles relating to areas of business, substantive law, and procedural law are compared to illustrate and | their skills through further instruction and practice. BUSR 53 — Real Estate Finance 3 Unit Degree Applicable |
| PLGL 44 — Bankruptcy Law 3 Units Degree Applicable, CSU 54 hours lecture Creation, scope, and administrative function of federal bankruptcy proceedings and arrangements. Includes wage earner plans and insolvency proceedings. | distinguish those systems from the U.S. system. Ethics, language, and management issues are considered with regard to doing business abroad. | 54 hours lecture <i>Prerequisite: BUSR 50 or employment in the real estate field</i> Real estate financing sources, loans underwriting, applications, and appraisals. Can be used to meet the additional education requirement of the salesperson or broker license. |

| | | Course Descriptions |
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| BUSR 55 — Real Estate Economics 3 Units | BUSR 77 — Escrow Procedures II 3 Units | BUSINESS: SALES, MERCHANDISING, AND MARKETING |
| Degree Applicable 54 hours lecture <i>Prerequisite: BUSR 50 or employment in the real estate field</i> Analysis of international, national and local factors which determine the value of real estate. Required by the DRE for the real estate broker license and may be used as the elective course for the salesperson license. | Degree Applicable 54 hours lecture <i>Prerequisite: BUSR 76</i> Advanced escrow procedures covering the more unusual and difficult types of escrows and evaluating the possible solutions. Emphasis on practical processing of real estate sale and loan transactions with some personal property sales. Designed to assist those either directly or indirectly connected with the escrow industry. | BUSS 33 — Advertising and Promotion3 Units Degree Applicable, CSU54 hours lectureCharacteristics and role of advertising and promotion in business are explored. Emphasis is placed on promotional mix, trend and forecast research, and developing a comprehensive multimedia promotion plan including advertising layout and copy. Students may not receive credit for both BUSS 33 and FASH 63. |
| BUSR 57 — Income Tax Aspects of Real Estate Investments 3 Unit Degree Applicable 54 hours lecture Current income tax principles governing the acquisition, ownership, operation and disposition of real property investments with special emphasis on tax planning and integration of tax concepts with procedural aspects. May be used as an elective course to satisfy one of the California Department of Real Estate's requirements for the salesperson or broker license. BUSR 59 — Real Estate Property Management 3 Units | BUSR 81 — Appraisal: Priniciples and Procedures 3.5 Units Not Degree Applicable 63 hours lecture Principles and procedures of appraising real property with emphasis on residential properties. Required by Office of Real Estate Appraisers (OREA) for all appraisal licenses and by the Department of Real Estate (DRE) for real estate broker license. Provides 60 hours toward OREA requirements for state licensing. Includes all topics listed in Appraisal Qualifications Board (AQB) Basic Appraisal Principles and Basic Appraisal Procedures modules. May be used as the elective course for the salesperson license. | BUSS 35 — Professional Selling 3 Units Degree Applicable, CSU 54 hours lecture Prerequisite: Eligibility for ENGL 68 Principles of selling and the role of a salesperson in the marketing process. Includes characteristics and skills necessary for a successful salesperson, techniques for prospecting and/or qualifying buyers, buyer behavior and critical steps in the selling process. Students develop and offer a sales presentation for a selected product, service or concept. BUSS 36 — Principles of Marketing 3 Units |
| 54 hours lecture Prerequisite: BUSR 50 Property management for owners and managers of residential and commercial income properties. Meets California real estate license requirements for salesperson and broker. BUSR 60 — Real Estate Investment Planning 3 Units | BUSR 82 — USPAP 1 Unit Not Degree Applicable 18 hours lecture Emphasizes appraisal standards and professional ethics. Meets the national 15-hour Uniform Standards of Professional Appraisal Practice (USPAP) requirement for initial licensing by the Office of Real Estate Appraisers (OREA). | Degree Applicable, CSU 54 hours lecture <i>Prerequisite: Eligibility for ENGL 68</i> Organization and function of system of distributing goods and services from the point of production to the consumer. Preparation of a marketing plan using product, distribution, promotional and pricing strategies. BUSS 50 — Retail Store Management and Merchandising 3 Units |
| Not Degree Applicable 54 hours lecture Prerequisite: BUSR 50 or employment in the real estate field A comprehensive analysis of various investment strategies, techniques, systems, and theories involving all forms of real estate with particular emphasis on research methods needed for successful investing. BUSR 62 — Mortgage Loan Brokering and Lending 3 Units | BUSR 83 — Residential Appraisal 3.5 Units Not Degree Applicable 63 hours lecture Includes all topics listed in Appraisal Qualifications Board (AQB)Modules: Residential Market Analysis and Highest and Best Use, Residential Appraiser Site Valuation and Cost Approach, and Residential Sales | Degree Applicable, CSU 54 hours lecture Principles and practices used in the management and merchandising of retail stores. Includes all aspects of the critical buying function, merchandising, promotional techniques, site selection, layout, staffing, market positioning and customer service. Students may not receive credit for both FASH 62 and BUSS 50. |
| Degree Applicable 54 hours lecture Overview of the technical knowledge of the State and Federal laws that govern the practice of mortgage loan brokerage and lending in the State of California as well as mortgage lending history and process. May be used as an elective for the salesperson or broker license. | Comparison and Income Approaches. Required by Office of Real Estate Appraisers (OREA) for all appraisal licenses and provides 60 hours toward OREA requirements for appraisal licensing. May be used as the elective course for the salesperson license or the required appraisal course for broker license. BUSR 84 — Residential Appraisal: Case Studies Not Decree Applicable | BUSS 79 — Work Experience in Marketing Management 1 to 4 Units Degree Applicable (May be taken four times for credit) (May be taken for Pass/No Pass only) 75 to 300 hours lab |
| BUSR 76 — Escrow Procedures I 3 Units Degree Applicable 54 hours lecture A case study method of escrow procedures including processing of sale escrows with and without new trust deed financing; learning and using the vocabulary of escrow; drawing of documents; and other processing details pertinent to handling escrows from inception to closing. May be used as an elective for the salesperson or broker license. | Not Degree Applicable 45 hours lecture Emphasizes residential appraisal case studies, report writing, statistics, modeling, and finance. Required by Office of Real Estate Appraisers (OREA) for all appraisal licenses. Provides 45 hours toward OREA requirements for state licensing. Includes all topics listed in Appraisal Qualifications Board (AQB) Modules: Residential Report Writing and Case Studies; Statistics, Modeling, and Finance; and Advanced Residential Applications and Case Studies. | Prerequisite: BUSS 33 or BUSS 35 or BUSS 36 or BUSS 50 and compliance with Work Experience regulations as designated in the College Catalog Provides marketing students with actual on-the-job experience in an approved work site which is related to classroom-based learning. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. Work Experience placement is not guaranteed but assistance is provided by the business faculty. Students who repeat this course will improve skills through further instruction and practice. |

| BUSS 85 — Special Issues in Marketing 2 Units | CHEMISTRY | CHEM 50H — General Chemistry I - Honors 5 Units |
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| Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture <i>Prerequisite: BUSS 33 or BUSS 35 or BUSS 36 or BUSS 50</i> Provides marketing majors with a forum to gain knowledge, develop techniques, problem solve, and implement an actual business marketing plan. Special emphasis will be placed on the particular project of the actual business used as the class project. Students who repeat this course will improve skills through further instruction and practice. CHEMICAL TECHNOLOGY | CHEM 10 — Chemistry for Allied Health Majors 4 Units (CAN CHEM06) Degree Applicable, CSU, UC 54 hours lecture 72 hours lab <i>Prerequisite: Eligibility for MATH 71</i> Principles of inorganic chemistry including measurements, structure, nomenclature, reactions, radioactivity, energy, properties of matter, acids/bases and solutions. For Allied Health majors such as nursing, dental hygiene, radiation technology. Completion does not give eligibility for CHEM 50. | Degree Applicable, CSU, UC 54 hours lecture 108 hours lab <i>Prerequisite: Acceptance into the Honors Program. Also (CHEM 40 or</i> <i>satisfactory score on the Chemistry Placement Exam) and (MATH 71,</i> <i>71B or 71X or equivalent)</i> Topics in general chemistry such as scientific method, measurements, nomenclature, formulas and equations, reaction patterns, stoichiometry, thermodynamic processes, periodic trends, atomic structure, molecular bonding and geometry, properties of gases, liquids, solids and solutions. Emphasis is on critical thinking and mathematical problem-solving |
| CHMT 1 — Introduction to Chemical Laboratory Technology 36 hours lecture | CHEM 20 — Introductory Organic and Biochemistry 5 Units (CAN CHEM08) Degree Applicable, CSU, UC CAN CHEM SEQ B 54 hours lecture 108 hours lab | using dimensional analysis. Hands-on laboratory experiments use computer and calculator-based technologies in data acquisition and analysis. Introduces techniques of scientific writing. An honors course designed to provide an enriched experience. Students may not receive credit for both CHEM 50 and CHEM 50H. |
| 54 hours lab Prerequisite: CHEM 10 A survey of chemical laboratory professional and ethical responsibilities, aspects of environmental health and safety, safe handling of chemicals, data collection, data presentation, and strategies for quality improvement. Group projects and case studies will be used to illustrate specific aspects of the course. May include field trips. | Prerequisite: CHEM 10 or CHEM 40 Nomenclature, structure, function and reactions of major classes of organic compounds and of biomolecules, including amino acids, lipids, carbohydrates, nucleic acids and proteins. Structure and function of vitamins, coenzymes and enzymes. Metabolic pathways and biochemical energy. | CHEM 51 — General Chemistry II5 Units(CAN CHEM04)Degree Applicable, CSU, UCCAN CHEM SEQ A54 hours lecture108 hours labPrerequisite: CHEM 50 or CHEM 50H |
| CHMT 5 — Elementary Principles of Chemical 2 Units Processing Degree Applicable, CSU 36 hours lecture Prerequisite: CHEM 50 Fundamental theories of industrial chemical processing. Includes mass | CHEM 40 — Introduction to General Chemistry 4 Units (CAN CHEM06) Degree Applicable, CSU, UC CAN CHEM SEQ B 54 hours lecture 72 hours lab Prerequisite: Eligibility for MATH 71 Advisory: Eligibility for ENGL 1A Advisory for the end of the end o | The application of the laws, theories and principles presented in CHEM 50 to a variety of chemical systems. Topics include kinetics, equilibrium, thermodynamics, acid-base and oxidation-reduction reactions, transition metals, electrochemistry and nuclear chemistry. Emphasis is on critical thinking and mathematical problem- solving. Laboratory experiments use computer and calculator-based technologies in data acquisition and analysis. |
| transfer, heat transfer, real time instrument measurement, water treatment, materials of construction and corrosion, separation by solubility, distillation, mixing systems and chemical reactions. CHMT 8 — Work Experience in Chemical Technology 1 to 2 Units | Introduction to measurements, structure and properties of matter, writing/balancing equations, stoichiometry, properties and behavior of gases, and properties of solutions. For science/ engineering majors preparing for admission into General Chemistry (CHEM 50.) | CHEM 60 — Quantitative Chemical Analysis 5 Units Degree Applicable, CSU, UC 54 hours lecture 108 hours lab |
| Degree Applicable (May be taken four times for credit) (May be taken for Pass/No Pass only) 75 to 150 hours lab Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog | CHEM 50 — General Chemistry I 5 Units (CAN CHEM02) Degree Applicable, CSU, UC CAN CHEM SEQ A 54 hours lecture 108 hours lab Prerequisite: (CHEM 40 or satisfactory score on Chemistry Placement | Prerequisite: CHEM 51 Techniques of gravimetric, volumetric and instrumental analysis. Precision in measurements, computations, accurate record keeping and report writing. General procedures, skills, methods, practices, philosophies, terminologies and ethics found in industrial, governmental and academic laboratories. |
| Provides Chemistry Technology students with actual on-the-job experience in an approved work setting which is related to classroom instruction. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. Students who repeat this course will improve skills through further instruction and practice. | <i>Examination) and (MATH 71, 71B or 71X or equivalent)</i> Topics in general chemistry such as scientific method, measurements, nomenclature, formulas and equations, reaction patterns, stoichiometry, thermodynamic processes, periodic trends, atomic structure, molecular bonding and geometry, properties of gases, liquids, solids and solutions. Emphasis is on critical thinking and mathematical problem-solving using dimensional analysis. Hands-on laboratory experiments use computer and calculator-based technologies in data acquisition and analysis. Introduces techniques of scientific writing. | CHEM 75 — Instrumental Analysis5 Units Degree Applicable54 hours lecture108 hours lab108 hours labPrerequisite: CHEM 51Introduction to a variety of instruments used in chemical industries. Includes theory, hands-on experience and basic maintenance of chemical instrumentation. |

| CHEM 80 — Organic Chemistry 5 Units Degree Applicable, CSU, UC 54 hours lecture 108 hours lab <i>Prerequisite: CHEM 51</i> Designed for chemistry, biochemistry, chemical engineering and biology majors; also for those in pre-professional programs such as medicine, veterinary medicine, dentistry, optometry and pharmacy. Structure/reactivity relationships, energetics, reactions, reaction mechanisms, synthesis, separation, characterization and spectroscopic methods for organic compunds. To assure that all content material is covered, it is recommended that students complete the entire one-year sequence at one campus prior to transfer. | CHLD 5 — Principles/Practices in Child Development Programs 3 Units Degree Applicable, CSU 54 hours lecture Overview of early child development programs: their histories, philosophies and emphasis; methods of guidance and discipline, licensing and regulations for state, federal and private programs. Reviews philosophies of educating young children and learning, while examining developmentally appropriate practices, including the influence of culture and inclusive environments on the developing child. Explores career paths, professional growth, and ethics. Student assignments involve ten hours outside of class time observation and participation in children's programs. | CHLD 51 — Early Literacy in Child Development3 Units Degree Applicable, CSU54 hours lecture Advisory: CHLD 611Examines the developmental continuum of literacy from birth through early childhood. Considerations of cultural and linguistic diversity are applied to the study of how children become competent in all areas of language. An appreciation of the importance of interaction and cooperation between home and school underlies the exploration of language and literacy acquisition. Issues of early literacy in public policy are reviewed. TB test/observations required.CHLD 61 — Language Arts and Art Media for3 Units |
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| CHEM 81 — Organic Chemistry 5 Units Degree Applicable, CSU, UC 54 hours lecture 108 hours lab <i>Prerequisite: CHEM 80</i> Continuation of CHEM 80. Designed for chemistry, biochemistry, chemical engineering and biology majors; also for those in pre- professional programs such as medicine, veterinary medicine, dentistry, optometry and pharmacy. Structure/ reactivity relationships, energetics, | CHLD 6 — Survey of Child Development Curriculum 3 Units Degree Applicable, CSU 54 hours lecture Prerequisite: CHLD 5 or CHLD 10 Overview of curriculum design for early childhood programs, including planning, implementation and evaluation of curriculum, and observing the interaction of play and development of the whole child. Organization of materials, curriculum areas, and resources are explored. | Young Children Degree Applicable 54 hours lecture Language and literacy development of young children (0 to 6 years) is explored through developmentally appropriate activities, language study, games and play. Describes the role of creative art in the curriculum in relationship to the child's development and creativity. Emphasizes ways to develop an inclusive culturally and linguistically appropriate learning environment which encourages the child's use of senses and builds an awareness of aesthetic materials. |
| reactions, reaction mechanisms, synthesis, separation, characterization and spectroscopic methods. Structure, synthesis and representative reactions of carbohydrates, lipids and proteins. CHEM 99 — Special Projects in Chemistry (May be taken four times for credit) 36 hours lecture | CHLD 10 — Child Growth and Development3 Units(CAN FCS14)Degree Applicable, CSU, UC54 hours lectureDevelopmental approach to the study of the child identifying forces affecting growth processes from conception through adulthood. Meets requirements for Title 22 and Title V Regulations pertaining to Child Development Permit. Out-of-class observations and interviews required. TB test required. | CHLD 62 — Music and Motor Development for Young Children 3 Units Degree Applicable, CSU 54 hours lecture Exploration of the role of music and movement in a child's development. Emphasizes students development in practical activities including making music, movement, singing and musical instruments. |
| In order to offer students the opportunity to explore their disciplines to greater depth, the various departments from time to time offer Special Projects courses. The content of each course and the methods of study vary from semester to semester, and depend on the particular project under consideration. Students must have an instructor's authorization before enrolling in this class. Students repeating this course will make individual contracts of a more advanced nature to ensure that proficiencies are enhanced. | CHLD 10H — Child Growth and Development - Honors 3 Units(CAN FCS14)Degree Applicable, CSU, UC54 hours lecturePrerequisite: Acceptance into the Honors ProgramDevelopmental approach to the study of the child identifying forcesaffecting growth processes from conception through adulthood. Meetsrequirements for Title 22 and Title V Regulations pertaining to ChildDevelopment Permit. Out-of-class observations and interviews required.An honors course designed to provide an enriched experience foraccelerated students. Students may not receive credit for both CHLD 10 | CHLD 63 — Creative Sciencing and Math for Young Children Degree Applicable 54 hours lecture Advisory: Eligibility for ENGL 68 Exploration of children's thinking processes and problem solving abilities as they become aware of the physical world. Discussion, planning, and creating basic science and math experiences. Emphasizes creative aspects of math and science. |
| CHLD 1 — Child, Family, School and Community 3 Units Degree Applicable, CSU, UC 54 hours lecture <i>Prerequisite: Eligibility for ENGL 68</i> Child development is presented as the interaction and collaboration between children, parents, family, school and community. Studies of family systems in contemporary society as they impact children and their individual heritage, diverse culture, ability and language. Explores the value of communication, the development of child advocacy skills and the ability to use community resources to empower families and children. | and CHLD 10H. TB test required. CHLD 50 — Multicultural Education: Anti-Bias Perspective Degree Applicable 54 hours lecture Advisory: CHLD 1 Current approaches to diversity in the early childhood setting. Students will create culturally relevant and inclusive teaching environments while fostering the goals of anti-bias curriculum. An emphasis is placed on addressing issues of bias that children and families experience on a daily basis in our society and recognizing effective and respectful handling of bias. | CHLD 64 — Health, Safety and Nutrition of Young Children Degree Applicable, CSU 54 hours lecture Examines the relationship between a child's health status, safe learning environments, and proper nutrition. Emphasizes the adult role in preventative health care, legal and ethical reporting of abuse, assisting families to access community services while supporting family practices from diverse populations. Includes universal health precautions, evaluate center/agency policies with licensing requirements, and food program service with guidelines for food handling. |

| CHLD 66 — Early Childhood Development Observation 2 Units Degree Applicable, CSU 54 hours lecture Prerequisite: CHLD 5 and CHLD 10 or CHLD 10H Corequisite: CHLD 66L (may have been taken previously) Emphasizes the importance of observation of children's behavior and its significance in understanding child development principles. Focus will be on the interaction of the preschool child with the environment and with significant people. CHLD 66L — Early Childhood Development | CHLD 69 — Early Childhood Development Field Work Seminar 2 Units Degree Applicable, CSU 36 hours lecture Prerequisite: CHLD 67, CHLD 67, CHLD 67, CHLD 67, CHLD 91 Selected topics pertinent to problems of students placed in community sites. Topics include philosophical orientation, curriculum, parent involvement, staff relations, professionalism and professional growth, and will involve study, discussion and research. | CHLD 74 — Program Planning for the School Age Child 3 Units Degree Applicable 54 hours lecture Advisory: CHLD 10 or CHLD 10H Integrates principles of child development related to working with the school-age child. Program planning and legal requirements for school- age programs are emphasized. Explores age-appropriate discipline and conflict resolution. Develops activity planning consistent with school- age content standards. Student assignments will include observations of school-age programs. |
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| Observation Laboratory Degree Applicable, CSU 54 hours lab <i>Corequisite: CHLD 66</i> Provides the student with an understanding of child development through observations in the laboratory school. The holistic approach to child study is emphasized. Students synthesize information which they have recorded and relate it to different areas of the preschool child's growth and development. | CHLD 71A — Administration of Child Development 3 Units Programs Degree Applicable, CSU 54 hours lecture Advisory: CHLD 1, CHLD 5, CHLD 6, CHLD 10 or CHLD 10H, or experience as an Administrator of a Children's Program History of the education of children in context of their care and development, laws governing children's programs in California, and goals of childhood development. The administrator's job description, program budget, personnel selection and standards, records and reports, | CHLD 75 — Supervising Adults in Early Childhood Settings2 Units Degree Applicable36 hours lecture Advisory: CHLD 1 and CHLD 5 Methods and principles of working with and supervising adults in the early childhood setting. Emphasis is on the role of the experienced children's teacher who functions as a model and mentor to new teachers as s/he addresses the needs of children, parents and staff. |
| CHLD 67 — Early Childhood Development Participation 2 Units Degree Applicable, CSU 36 hours lecture Prerequisite: CHLD 6 and CHLD 66 Corequisite: CHLD 6 71 Application of knowledge of child development principles in the preschool children's classroom setting and recognition of skills necessary for the teacher of young children. Evaluation of participation experiences. CHLD 67L — Early Childhood Development Participation Laboratory Degree Applicable, CSU | and staff policies are included. CHLD 71B — Management/Marketing/Personnel for 3 Units ECD Programs Degree Applicable 54 hours lecture Prerequisite: CHLD 71A Strategic planning for ECD programs, including financial administration, budgeting and marketing. Investigates basic financial/data management programs; examines personnel management practices | CHLD 81 — Current Curriculum Models in Child Development 1 Unit Degree Applicable (May be taken two times for credit) Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 18 hours lecture Provides students with working knowledge of specific curriculum models appropriate for child development programs. Origins, classroom practices, pros, cons, and evaluation methods discussed. Curriculum model will change with course offering. CHLD 82 — Advocacy in Child Development 1 Unit Degree Applicable |
| 63 hours lab Corequisite: CHLD 67 Teaching experiences in the preschool children's classroom related to creating environment, managing program, preparing materials, planning and carrying out activities for individual children and groups of children. | CHLD 72 — Teacher, Parent, and Child Relationships 3 Units 54 hours lecture Degree Applicable Comprehensive examination of child/parent/teacher relationships to better understand family dynamics and to recognize influences in the child development setting. Theories of sequential changes in parent/child/school relations within the large social context. Strategies | (May be taken for option of letter grade or Pass/No Pass) 18 hours lecture Investigates current issues in Child Development; explores process of advocacy on behalf of children. CHLD 83 — Current Issues in Child Development CHLD 83 — Current Issues in Child Development (May be taken four times for credit) |
| CHLD 68 — Children With Special Needs 3 Units Degree Applicable, CSU 54 hours lecture <i>Prerequisite: CHLD 10 or CHLD 10H</i> Characteristics of the needs of typically and atypically developing children in areas of cognitive, physical, neurological, emotional and social development. Identifies legal requirements, current issues, community resources and the IEP/IFSP process. Emphasizes modifications, adaptations, accommodations and teaching techniques involved in the inclusive classroom. Required observations in community agencies. | dealing with issues that emerge when working with children and their families in the school setting.CHLD 73 — Infant/Toddler Care and Development 3 Units Degree Applicable, CSU54 hours lecture Advisory: CHLD 10 or CHLD 10H Caregivers and parents learn developmentally appropriate practices for infants and toddlers applicable to families and group care, environmental planning, and developing relationships between diverse families and staff. Student assignments involve up to ten hours of observations and participation with infants and toddlers outside of class time. | (May be taken for option of letter grade or Pass/No Pass) 18 hours lecture Advisory: CHLD 5, CHLD 10 or CHLD 10H |

| 18 hours lecture CAN CHIN SEQ A 27 hours lecture Advisory: CHLD 5 72 hours lecture 27 hours lecture Problem solving approach to guidance and discipline of children in child Further develops conversational, requirated and attitudinal aspects of producing a respectful environment between 27 hours lecture 27 hours lecture CHLD 85 – Infants At Risk 3 Units CHIN 85 – Infants At Risk 3 Units 54 hours lecture Pereguistite: CHID 64 and CHLD 73 CHIN 85 – Infants and todellers who are diseled or at-risk in the early childhood setting. Emphasis is placed or at-risk in the early childhood setting. Emphasis is placed or at-risk in the early childhood setting. Emphasis is placed or at-risk in the early childhood setting. Emphasis is placed or at-risk in the early childhood setting. Emphasis is placed or at-risk in the early childhood setting. Emphasis is placed or at-risk in the early childhood setting. Emphasis is placed or at-risk in the early childhood setting. Emphasis is placed or at-risk in the early childhood setting. Emphasis is placed or at-risk in the early childhood bevelopment Freeduiste: CHIN 2 or equivalent CHIN 4 — Continuing Intermediate Chinese or freequistice: CHIN 2 or equivalent 72 hours lecture Preequistice: CHIN 3 or equivalent Preequistice: CHIN 2 or equivalent 73 hours lecture Preequistice: CHIN 3 or equivalent Preequistice: CHIN 2 or equivalent 74 hours lecture Preequistice: CHIN 3 or equivalent Preequistice: CHIN 3 or equivalent | | | |
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| CHLD 85Infants At Risk3 UnitsCHLD 85Degree ApplicableCMN (H1008)Degree Applicable, CSU, UC54 hours lecturePrerequisite: CHID 64 and CHLD 73Prerequisite: CHID 64 and CHLD 73Advisory: CHLD 5Advisory: CHLD 5Further development of Mandarin Chinese language skills and their use as tools in exploring Chinese civilization. Further study and review of grammar, exercises in word building, derivation, and the extension of the active and recognition vocabularies.CMM P 2 — Intermediate Computer Keyboarding Degree Applicable, CSU, VI hours lectureCHLD 91 — Early Childhood Development Field Work 75 hours lab1 Unit Degree Applicable, CSU, Prerequisite: CHID 67 and CHLD 671 Computers (CHLD 67 and CHLD 671 Computers (CHLD 67 and CHLD 671 Computers (CHLD 69 and chult of credit. It is recommended that the hours per week be equally distributed throughout the semester.1 Unit Degree Applicable, CSUCMP 1 — Computer Keyboarding Prerequisite: CHLD 67 and CHLD 671 Computers.COMP 1 — Computer Keyboarding Degree Applicable, CSUCMP 1 — Computer Keyboarding A teacher-supervised work kis periodic dock hours gere semester of supervised work is paid of 0 non-paid clock hours gere semester of supervised work is per development field dock hours gere semester of supervised work is paid of 0 non-paid clock hours gere semester of supervised work is paid of 0 non-paid clock hours gere semester of supervised work is per development field dock hours gere semester of supervised work is paid of 0 non-paid clock hours gere semester.COMP 11 — Intermediate Computer Keyboarding Degree Applicable, CSUCMP 11 — Computer Keyboarding paid of 0 non-paid clock hours gere semester.Computer K | Development Settings Degree Applicable, CSU is lecture /: CHLD 5 in solving approach to guidance and discipline of children in child ment settings. Investigation of appropriate developmental and nal aspects of producing a respectful environment between L caregivers and parents. | (CAN CHIN04) Degree Applicable, CSU, UC CAN CHIN SEQ A 72 hours lecture <i>Prerequisite: CHIN 1 or equivalent</i> Further develops conversational, reading, and writing skills in Mandarin Chinese with special emphasis on verbs, grammar, and extension of vocabulary. | Degree Applicable, CSU 27 hours lecture 27 hours lab <i>Advisory: COMP 1A or BUSO 1A, or ability to type 20 wam with test</i> <i>verification at first class meeting</i> Develops a straight-copy rate of 25 to 40 gross words a minute with a predetermined error limit and includes keyboarding of letters, tables, and manuscripte |
| CHLD 92 — Family Child Care 3 Units Develops basic alpha/numeric keyboarding skills on a personal computer; develops a straight-copy rate of 25 to 40 gross words a minute with a predetermined error limit; includes keyboarding of letters, tables and manuscripts. 27 hours lab Advisory: CMLD 1, 5, 6 and 10 Advisory: CMLD 1, 5, 6 and 10 70 or CISB 13 An overall view of home-based early education programs which includes standards of quality for the field of family child care in relationships, environments, activities, developmental learning goals, safety/health, professional and business practices. COMP 1A — Computer Keyboarding view of letter grade or Pass/No Pass) 20 nits Degree Applicable, CSU CHIN 1 — Elementary Chinese 4 Units Degree Applicable, CSU, UC CAN CHINO2) Degree Applicable, CSU, UC Degree Applicable, CSU, UC CMay be taken for option of letter grade or Pass/No Pass) Computer; develops a straight-copy rate of 25 to 30 gross words a minute with a predetermined error limit. COMP 12 — Office Computer Applications CAN CHINO2) Degree Applicable, CSU, UC Degree Applicable, CSU, UC May be taken for option of letter grade or Pass/No Pass) 54 hours lecture 72 hours lecture Standards of upplicable, CSU, UC Degree Applicable, CSU, UC May be taken for option of letter grade or Pass/No Pass) CMMP 12 — Office Computer Applications 72 hours lecture Standards of upplicable, CSU, UC May be taken for option of letter grade or | 5 — Infants At Risk 3 Units Degree Applicable 5 lecture Size: CHLD 64 and CHLD 73 (CHLD 5) es and methods of working with infants and toddlers who are d or at-risk in the early childhood setting. Emphasis is placed on ffecting normal development prevention, intervention, referrals nsition to school. Course will prepare teachers of young children ropriate planning in these settings. 1 — Early Childhood Development Field Work 1 Unit Degree Applicable, CSU e taken for Pass/No Pass only) is lab isite: CHLD 67 and CHLD 67L isite: CHLD 69 1 Unit Degree Applicable, CSU e saken for Pass/No Pass only) is lab isite: CHLD 69 3 Units Degree Applicable e re-supervised work experience course which permits students to arly childhood development principles in community preschools. 9 Seminar will supplement student's progress. A minimum of 75 60 non-paid clock hours per semester of supervised work is d for each unit of credit. It is recommended that the hours per e equally distributed throughout the semester. 2 — Family Child Care 3 Units Degree Applicable s lecture 3 Units Degree Applicable r: CHLD 1, 5, 6 and 10 all view of home-based early education programs which is standards of quality for the field of family child care in ships, environments, activities, developmental learning goals, nealth, professional and business practices. CHINESE 4 Units INO2) Degree Applicable, CSU, UC IN SEQ A is lecture | (CAN CHIN08) Degree Applicable, CSU, UG 72 hours lecture Prerequisite: CHIN 2 or equivalent Further development of Mandarin Chinese language skills and their use as tools in exploring Chinese civilization. Further study and review of grammar, exercises in word building, derivation, and the extension of the active and recognition vocabularies. CHIN 4 — Continuing Intermediate Chinese 4 Units: Degree Applicable, CSU, UG 72 hours lecture Prerequisite: CHIN 3 or equivalent Enables students to use Mandarin in traveling, telling stories, describing experiences and discussing Chinese literary works, festivals and food. Students learn advanced grammar such as the directional and potential complements, repetition of adjectives, the focus construction, the ba and bei structures. COMPUTER APPLICATIONS COMP 1 — Computer Keyboarding 4 Units: Degree Applicable, CSU 54 hours lecture 54 hours lab Develops basic alpha/numeric keyboarding skills on a personal computer; develops a straight-copy rate of 25 to 40 gross words a minute with a predetermined error limit; includes keyboarding of letters, tables and manuscripts. COMP 1A — Computer Keyboarding 2 Units: Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 27 hours lecture 27 hours lab Develops basic alpha/numeric keyboarding with skills on a personal computer; develops a straight-copy rate of 25 to 30 gross words a | COMP 2 — Intermediate Computer Keyboarding4 Units Degree Applicable54 hours lecture54 hours lab54 hours labPrerequisite: COMP 1 or COMP 1B or BUSO 1 or BUSO 1B, or one year of high school keyboardingDevelops computer keyboarding speed and accuracy with a proficiency standard upon completion of 35- 55 gross words a minute with a predetermined error limit. Using word processing software, extensive instruction given for formatting of letters, memos, reports, tables and other related business documents.COMP 10 — Operating the Macintosh Computer1.5 Units Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 27 hours lectureBasic skills and in-depth practice operating the Apple Macintosh computer. Includes introduction to the operating system, paint, draw, word-processing, database, spreadsheet, and multi-media applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 27 hours lecture 27 hours lecture 27 hours lecture 27 hours lecture 27 hours lab Advisory: COMP 10 or CISB 13 Practical hands-on instruction using the Internet for research in a business environment. Master Internet-specific research techniques, discover timesaving tips for locating and managing information, and use the entire Internet, newsgroups, FTP (File Transfer Protocol) and mailing lists.COMP 12 — Office Computer Applications4 Units Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture |
| Intended for students without previous exposure to Chinese. Begins to processing, spreadsheet, data management, and business gr | the ability to converse, read, and write in Mandarin Chinese. the study of essentials of pronunciation, vocabulary, idioms, and | | processing, spreadsheet, data management, and business graphics. Intended for the student who needs to upgrade or acquire office |

| COMP 13 — Using Web Page Software 4 Units Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture 54 hours lab Advisory: COMP 10 or COMP 12 or CISB 13 or CISB 15 Using industry leading Web page authoring software to plan, develop, and publish effective professional Web sites. Includes working with text and graphics; creating hyperlinks; creating tables and layers; collecting data with forms; adding multimedia objects; creating and applying cascading style sheets; creating interactions and behaviors; publishing a | COMP 60 — Business Publications Using Desktop Publishing Software 4 Units Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture 54 hours lab Using desktop publishing software, integrate text and graphics to design, edit, and produce high-quality business publications. 6000 Composed Software Sof | GRAP 12 — Advanced Photo Editing with Photoshop 3 Units Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture 54 hours lab Prerequisite: GRAP 10 Advanced training in Photoshop editing, color, exposure, sharpness, and contrast enhancement, layer and object masking, vector tools, image compositing, and the uses of blended modes; design of realistic and imaginary photo illustrations using 8- and 16-bit high resolution digital images. |
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| Web site. COMP 18 — Data Entry 3 Units Degree Applicable 54 hours lecture Advisory: Ability to type 25 warn with test verification at first class meeting Data entry using a microcomputer. Includes intensive skill building on | 54 hours lecture Develops the language competencies and formatting knowledge required to produce acceptable business documents; emphasizes punctuation, number usage, proofreading, spelling and word division; and reinforces through a series of sentence applications, paragraphs and business documents. | GRAP 14 — Digital Color Management3 Units Degree Applicable(May be taken for option of letter grade or Pass/No Pass)36 hours lecture54 hours lab Prerequisite: GRAP 10Advanced techniques of digital photo color management systems and |
| the ten-key pad and development of keyboarding skills for entering formatted and non-formatted text, both alphabetic and numeric, in a variety of business applications. COMP 20 — Word for the Business Professional Degree Applicable | Degree Applicable (May be taken for Pass/No Pass only) 18 hours lecture Overview and basic instruction using one of the most popular presentation software packages. Recommended for all students who | workflow. System color architectures, monitors, printers, proofers, and other digital devices; spectrophotometer techniques; scripting Photoshop actions, using "digital raw" meta data to organize photo storage; advanced special editing techniques for 16-bit raw color and grayscale images. |
| (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture 54 hours lab Advisory: COMP 10 or CISB 13 and ability to type 25 wpm with test verification at first class meeting. Extensive hands-on instruction using Microsoft Word and its editing, formatting, and language tools to create, revise and format various business and report documents. Also create flyers, newsletters, and other publication documents using advanced formatting techniques and tools. | reconnected for office and statement of an statement who need to know how to create presentations. Not recommended for Office Technology majors. COMPUTER GRAPHICS GRAP 1 — Computer Graphics Lab 1 Unit Degree Applicable (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 54 hours lab Advisory: COMP 10 or equivalent computer experience Provides computer laboratory experience to supplement the regular | GRAP 16 — Digital Image Design with Illustrator and Freehand 3 Units Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture 54 hours lab Advisory: COMP 10 or equivalent computer experience Basic digital image drawing techniques using Adobe Illustrator or Macromedia Freehand. Includes software tools, applying color, using layers, typography, measurement, and paper systems. Practice importing photo scans, creating layouts, layer animation, choosing fonts, special |
| COMP 28 — Office Management Skills 3 Units Degree Applicable 54 hours lecture Advisory: COMP 1 or COMP 1A or BUSO 1 or BUSO 1A and BUSO 5 54 hours lecture Training and skill building in filing systems and procedures, proofreading, telephone techniques, faxing, emailing, and electronic calendaring of events, appointments and meetings. | program, and provides opportunities for students to pursue more advanced projects. Students who repeat this course will improve skills through further instruction and practice. GRAP 10 — Photo Editing with Photoshop 3 Units Degree Applicable (May be taken for option of letter grade or Pass/No Pass) | effects, export file formats, and output in a digital workflow. GRAP 18 — Advanced Image Design - 3D 3 Units Modeling Techniques Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture 54 hours lab |
| COMP 50 — Desktop Presentations Using PowerPoint 4 Units Degree Applicable, CSU 54 hours lecture 54 hours lab <i>Advisory: COMP 10 or COMP 12 or CISB 13 or CISB 15</i> Use PowerPoint to plan, design, and produce effective presentations. Includes creating charts, diagrams, and storyboards; developing appropriate text content; adding sound, animation, and movies. | 36 hours lecture 54 hours lab <i>Advisory: COMP 10 or PHOT 4</i> Basic techniques to adjust and modify photos using Photoshop software tools. Includes digital color theory and photo quality standards; practice photo scan reproduction, resolution and scaling, masking, layer editing and effects, filters, color correction and file formats; output for editing, restoring, and retouching. | <i>Prerequisite: GRAP 16</i> Advanced digital image drawing emphasizing creation of photorealistic 3D models and environments. Principles of perspective, coordinate space, photographic lighting, object animation, photo and video texture mapping, and common techniques for rendering still or animated QuickTime image movies for digital compositing and post-production. |

| GRAP 20 — Applying Photos and Images in Multimedia 3 Units Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture 54 hours lab Advisory: GRAP 10 Principles of digital storytelling, combining still photos, graphics images, type, video, and audio content output to digital CD or DVD media, video, or Web pages. Commonly used tools and techniques of Apple's iPhoto, iMovie, iDVD, iTunes, GarageBand, and QuickTime Pro multimedia software, Mac OS X features, and other multimedia software and hardware. GRAP 24 — Work Experience in Computer Graphics 2 Units Degree Applicable (May be taken four times for credit) (May be taken four times for credit) (May be taken four times for credit) Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog Provides Computer Graphics students with actual on-the-job experience in an approved work setting which is related to classroom instruction. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. Students who repeat this course will improve skills through further instruction and practice. | COMPUTER INFORMATION SYSTEMS: AUXILIARY CISX 94 — Laboratory Studies in Computer 1 to 3 Units Information Systems Degree Applicable, CSU (May be taken four times for credit) (May be taken for Pass/No Pass only) 54 to 162 hours lab Prerequisite: Laboratory course in the same subject field and program specialization and depending on space availability This course provides extended laboratory experiences supplementary to those available in the regular program and allows the student to pursue more advanced and complex laboratory projects and experiments. Students who repeat this course will increase skill proficiencies in Computer Information Systems. CISX 97 — Work Experience in Computer Information Systems. CISX 97 — Work Experience in Computer (May be taken four times for credit) (May be taken for Pass/No Pass only) 75 hours lab Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog Advisory: CISD 14, CISP 14, CISM 31 Provides CIS students with actual on-the-job experience in an approved work site which is related to the classroom-based learning. A minimum of 75 paid clock hours or 60 non-paid clock hours per semester is | CISB 15 — Microcomputer Applications 4 Units Degree Applicable, CSU, UC 54 hours lecture 54 hours lecture 54 hours lab Introduction of windows based operating system and applications. Simple business examples using up-to-date browser, word processing, spreadsheet, database management and presentation software; and integration of software applications. Hands-on instruction on windows based computers. CISB 21 — Microsoft Excel 4 Units Degree Applicable 54 hours lecture 54 hours lecture S4 hours lab Spreadsheet concepts using Microsoft Excel including formatting formula and function use, charting, linking worksheets, pivot tables, macros, and VBA code basics. COMPUTER INFORMATION SYSTEMS: DATABASE CISD 11 — Database Management - Microsoft Access 4 Units Degree Applicable, CSU S4 hours lecture S4 hours lecture |
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Section 10 145

COURSE DESCRIPTIONS

| CISD 31 — Database Management - Oracle 4 Units Degree Applicable 54 hours lecture 54 hours lab Advisory: CISB 11 Oracle database management system (DBMS) functions, concepts, and terms. PL/SQL is used to code, test, and implement stored procedures, functions, triggers, and packages. Relational database projects will be built using PL/SQL. CISD 32 — Oracle Forms and Reports 4 Units Degree Applicable 54 hours lecture 54 hours lab Advisory: CISD 31 Design, creation and implementation of interactive single forms with multiple convases, multiple forms and reports using PL/SQL triggers, the | COMPUTER INFORMATION SYSTEMS: NETWORKING COMPUTER INFORMATION SYSTEMS: NETWORKING Computer Systems: Networking ClSN 11 — Telecommunications/Networking Degree Applicable, CSU S4 hours lecture S4 hours lab Advisory: CISB 11 or CISB 15 CNASM core. Prepare for Cisco CCNA 1st year certification. Covers fundamental concepts and design in telecommunications/networking including: network standards, TCP/IP, OSI, network protocols, transmission media, hardware architecture, local area network, wide area network, remote connectivity, Network operating system (Microsoft Windows, Novell NetWare, and UNIX), troubleshooting, maintaining/upgrading network, network security, vulnerability, and intrusion detection. CISN 14 — Advanced Telecommunications | CISN 31 — Linux Operating System 4 Units Degree Applicable, CSU 54 hours lecture 54 hours lecture 54 hours lab Advisory: CISB 11 Concepts and skills in planning and installing Linux Operating System and its graphical interface; using Linux Shells and system administration commands; managing user accounts; installing hardware and software; creating scripts to automate system administration; and maintaining file systems and system resources. CISN 34 — LINUX Networking and Security 4 Units Degree Applicable, CSU S4 hours lecture S4 hours lab Advisory: CISN 31 Network installation and management using Linux operating system |
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| ClsD 40 — Database Design 3 Units Degree Applicable 54 hours lecture Advisory: ClSD 11 Database design principles. Understanding database needs and functions, creating data models, entity-relationship (E-R) and Unified Modeling Language (UML) diagrams, using normalization rules and principles to create properly-designed databases, learning basic database administrator objectives and tasks, and understanding the role of data warehousing and data mining. | 54 hours lecture 54 hours lab Advisory: CISM 11, CISN 11, CISN 41 Concepts of advanced telecommunication and network analysis. Topics including: review of networking and telecommunications protocols; advanced TCP/IP subnet and OSI Model applications; use of protocol analysis tool to capture data frame and troubleshoot advanced network problems through the decode analysis of the captured data frame; design and analysis of LAN, WAN, and Wireless networks in various environments and appraisal of network security, vulnerability and intrusion detection. CISN 21 — Windows Operating System | and its security components. In-depth study of conceptung 5/stern addressing, network protocols and servers, gateways, routers, bridges and applications. Creating Linux intranets and connecting to Internet. CISN 41 — Novell/SUSE Linux Enterprise 4 Units Server Administration Degree Applicable, CSU 54 hours lecture 54 hours lab Advisory: CISB 15, CISN 11 or CISN 21 Novell, Microsoft Windows, and Linux server network integrations. NDS (Novell Directory Services), server and client installation, shared resources, NDS and file system security, login script, network printing and management, ZEN (Zero Effort Network), IP subnet. |
| COMPUTER INFORMATION SYSTEMS: MANAGEMENT CISM 11 — Systems Analysis and Design 3.5 Units Degree Applicable, CSU, UC 54 hours lecture 27 hours lab Advisory: CISB 15 or COMP 12 and CISB 11 Develops basic understanding of information systems, general system solutions and the discipline of systems analysis in relation to the information system life cycle. Develops skills in applying the tools, techniques, and concepts of systems analysis to information systems development. | 54 hours lecture 54 hours lab Advisory: CISB 11 or CISB 15 or COMP 12 Employing a Windows operating system to manage disks, files and applications. Creating and editing documents with Wordpad and Paint applications, analyze and debug Windows operating environment problems, secure a Windows environment, conduct research on the Internet. CISN 24 — Window Server Network and Security Administration Degree Applicable, CSU 54 hours lecture 54 hours lab Advisory: CISB 15 or CISB 11 or CISN 11 or CISN 21 Active directory security and policy management, server/client installation, DHCP (Dynamic Host Configuration Protocol), DNS (Domain Name Service), file system security, logon script, network printing, web and terminal server, NAT, IPsec and secure VPN. | CISN 51 — Cisco CCNA Networking and Routing4 UnitsDegree Applicable, CSU54 hours lecture54 hours labAdvisory: CISN 11 or CISN 24 or CISN 34 or CISN 41CNASM (Computer Network Administration and Security Management)AS degree core course. Prepare for Cisco CCNA certification. CoverLAN/WAN (Local/Wide Area Network) fundamentals, advanced IPsubnet, TCP/IP, IGP, EGP, and network design. Configure Cisco IOS, router,switch, VLAN, access list, PPP, frame relay, HDLC, and routing protocols(Static Route, RIP, IGRP, EIGRP, and OSPF).COMPUTER INFORMATION SYSTEMS: PROGRAMMINGCISP 10 — Principles of Object-Oriented Design2 Units27 hours lectureNot Degree Applicable27 hours labAdvisory: CISP 11 or CISP 21 or CISP 31 or CISP41Object-oriented design, patterns, and use of UML in differentprogramming languages that will enable students to build largepackages and business applications.Subnet, Subnet, Subne |

| CISP 11 — Programming in Visual Basic4 Units(CAN CSCI06)Degree Applicable, CSU, UC54 hours lectureS4 hours labAdvisory: CISB 11 or CISB 15 or computer work experienceProgramming using Visual Basic. Planning and writing object-orientedapplications using Windows Forms and Web Forms; user interfacedesign classes, objects, properties, methods and events; controlstructures; lists and arrays; printing and Print Previews; accessing adatabase. | CISP 31 — Programming in C++ 4 Units Degree Applicable, CSU, UC 54 hours lecture 54 hours lab Advisory: CISP 11 or CISP 21 Object-oriented programming using C++ as the programming language. Object oriented design, documentation, and debugging techniques. Elementary control structures, classes, overload operators and functions, single and multiple inheritance. CISP 34 — Advanced C++ Programming 4 Units | CISP 51 — Principles of Object-Oriented Design 2 Units Degree Applicable 27 hours lecture 27 hours lab 27 hours lab Advisory: CISP 11 or CISP 21 or CISP 31 Provides instruction in object-oriented design and patterns, vital concepts for object-oriented programming language. Includes object-oriented design, patterns and UML within programming that will enable students to build large packages and business applications. COMPUTER INFORMATION SYSTEMS: SECURITY | |
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| CISP 14 — Advanced Visual Basic Programming4 Units Degree Applicable, CSU, UC54 hours labAdvisory: CISP 11Advanced computer programming concepts using Visual Basic.NET as the programming language. Designing, coding, testing, and implementing object-oriented multiple tier programs; program design using Unified Modeling Language; using data adapters, object linking and embedding (OLE) objects and dynamic link libraries (DLLS); incorporating XML, Web forms, and Web services; creating and updating sequential and random files; validating input data; trapping errors; designing, displaying, searching, and updating database tables; creating record sets using SQL and database reports using Crystal Reports, producing business graphics; using distributing applications; creating components, collections, and help files.CISP 21 — Programming in Java4 Units Degree Applicable, CSU, UC54 hours lab Advisory: CISB 11 or CISB 15 Programming using Java as the programming language. Design and develop object-oriented programs and Web-based applets; documentation and debugging techniques; user-interface, objects, properties, methods, and events; elementary control structures, lists, arrays, streams and serialization. Provides students with hands-on experience.CISP 24 — Advanced Java Programming S4 hours lab Advisory: CISP 214 Units Degree Applicable54 hours lab Advisory: CISP 21Advanced object-oriented programming concepts and techniques in Java. Course is designed to teach serialization, multithreading, advanced Swing components, networking, server-side technology (servlets, RMI), JDBC, Java Beans, Security (PKI). | Degree Applicable, CSU, UC | COMPUTER INFORMATION SYSTEMS: SECURITY CISS 11 — Practical Computer Security Degree Applicable 27 hours lab Advisory: CISB 11 Introductory course in computer security. Provides awareness for all computer users to protect user accounts and computer systems from attacks. Hands-on projects illustrate security software and hardware configuration. CISS 13 — Principles of Information Systems Security 4 Units Degree Applicable S4 hours lab Advisory: CISB 11 Introductory course in information systems security covering the ten domains needed for the Certified Information Systems Security Professional (CISSP). CISS 15 — Operating Systems Security Upgree Applicable S4 hours lab Advisory: CISB 11 Introductory course in information systems security covering the ten domains needed for the Certified Information Systems Security Professional (CISSP). CISS 15 — Operating Systems Security Upgree Applicable S4 hours lab Advisory: CISB 11, CISN 21 Advisory: CISB 11, CISN 21 Advisory: CISB 11, CISN 21 <td colspan<="" td=""></td> | |
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| CISS 21 — Network Vulnerabilities and Countermeasures 4 Units | CISW 21 — Secure Web Programming with ASP.NET 4 Units | COMPUTER SCIENCE |
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| Degree Applicable, CSU 54 hours lecture 54 hours lab Concepts of network vulnerabilities from a hacker's perspective. Addresses the latest cutting edge attacks and common attacks still prevalent though hands-on lab assignments; explores legal issues associated with computer network attacks; provides students knowledge to design, build and operate network systems to prevent, detect, and respond to attacks. Communication protocols, mediums, security classes, well-known ports and services, discovery and scanning techniques, port, socket and service vulnerablity penetrations are some topics addressed. | Degree Applicable, CSU 54 hours lecture 54 hours lab Advisory: CISB 15 or CISW 11 Acquire secure programming skills for designing user interfaces, processing user input, and accessing Web servers and databases. Use secure coding techniques with Web programming, scripting and markup languages like XHTML, Dynamic HTML, CSS, XML, Javascript, AJAX, ASP.NET with VB.NET. CISW 24 — Secure Server Side Web Programming CALL Degree Applicable | CSCI 110 — Fundamentals of Computer Science 3.5 Units Degree Applicable, CSU, UC 54 hours lecture 27 hours lab <i>Prerequisite: MATH 71 or MATH 71B or equivalent</i> <i>Advisory: Eligibility for ENGL 1A</i> Basic concepts of computer hardware and software. General computer organization and information representation. Binary and hexadecimal number systems. Algorithm design and problem-solving techniques. Introduction to programming using a high level language (C, C++ or Java.) |
| CISS 23 — Network Analysis, 4 Units Intrusion Detection/Prevention Systems Degree Applicable, CSU 54 hours lecture 54 hours lab CNASM (Computer Network Administration and Security Management) AS degree core course. Cover IDS/IPS (intrusion detection/prevention systems) and network protocol and analyzing tools. Discuss qualities that go into a sound and appropriate IDS/IPS in different scenarios. Hands-on practice of the tools such as Snort, Cisco IDS/IPS sensor, Sniffer, Ethereal, WildPackets, TCPDump, to detect network attack and | 54 hours lecture 54 hours lab Advisory: CISW 21 Advanced Web programming such as creating Web user interfaces like interactive CGI (Common Gateway Interface), programming databases, managing files, extracting information, report formatting, and accessing Web servers by using a Web scripting or programming language like PERL. CISW 31 — Secure Web Servers 4 Units Degree Applicable 54 hours lecture 54 hours lab | CSCI 140 — C++ Language and Object Development4 Units(CAN CSCI18)Degree Applicable, CSU, UC54 hours lecture5454 hours labPrerequisite: CSCI 110 or equivalent programming experienceFor computer science, mathematics, engineering and other sciencestudents. Introduction to C++ programming and object-orientedparadigm. Control structures, functions, arrays, pointers and strings,classes and data abstraction, C++ object programming, operatoroverloading, inheritance, virtual functions and polymorphism, streaminput and output, templates, exception handling, file processing.Introduction to data structures in C++, string processing and recursion. |
| troubleshoot network problems. CISS 25 — Network Security and Firewalls 4 Units Degree Applicable, CSU 54 hours lecture 54 hours lab Concepts of design and implementation of a secured network. Addresses an in-depth coverage of network security design, implementation and configuration of firewall and VPN in various environments and platforms, implementing security with Cisco routers, firewall log analysis, IPsec, Ssh (Secure Shell), and secure Perimeter design. Lab assignments will provide hands-on practice in installing. COMPUTER INFORMATION SYSTEMS: WEB APPLICATIONS CISW 11 — Introduction to Internet Technologies 4 Units | Advisory: CISN 31 or CISW 21Plan, install and manage secure Web servers like Apache or IIS using server side programming language like PHP to access, manage and secure databases. Course topics include Web server security using firewalls, authentication, and SSL, database installation and configuration, running and securing practical e-commerce sites.CISW 41 — XML Secure Programming3 Units Degree Applicable54 hours lecture Advisory: CISW 213 Units of the Extensible Markup Language (XML), including advanced concepts of XPointers, XLink, and XSLT. Apply XML secure programming using DOM and SAX and standards such as | CSCI 145 — Java Language and Object Oriented Programming Degree Applicable, CSU, UC 54 hours lecture 54 hours lab Prerequisite: CSCI 110 Introduction to Java language and object oriented programming with Java as well as general concepts and techniques of computer programming. Topics include: Java expressions, flow control, methods and program structure, Java classes, overloading, object references, inheritance, Java library packages, exceptions, file I/O, applets, GUI, and event handling. A course for computer science, engineering, mathematics, and other science students. |
| CISW TT — Infoduction to internet recipiologies — 4 bints Degree Applicable, CSU 54 hours lab Advisory: CISB 11 or CISB 13 or CISB 15 Overview of Internet concepts and how to use Internet technologies securely, including: e-mail, World Wide Web, chat, instant messaging, voice over IP, searching the Internet, file-sharing, streaming media, creating Web pages and Web sites, blogging, podcasting, wikis, RSS, social networking, multiplayer gaming, and e-commerce. | Canonicalization, Signatures and Encryption. CISW 49 — Service Oriented Architecture Concepts 3 Units and Practice Degree Applicable 54 hours lecture <i>Prerequisite: CISW 41</i> Concepts and design prinicples of Service Oriented Architecture (SOA) and best practices on how to integrate SOA; XML technologies like DTD, XSD, XLST, XQuery and XPath; and Web Services technologies like WSDL, SOAP, and UDDI. Best practices on integrating SML and Web Services into applications and databases and enterprise level systems. | CSCI 150 — Assembly Language/Machine Architecture 3 Units (CAN CSCI10) Degree Applicable, CSU, UC 54 hours lecture <i>Prerequisite: CSCI 110</i> <i>Corequisite: CSCI 150L</i> Organization and operation of real computer systems at the assembly language level using the Intel 80x86 family of processors; mapping statements and constructs in a high-level language onto sequences of machine instructions; internal representations of simple data types and structures; numerical computation, noting various data representation errors and potential procedural errors; investigation of basic principles of operating systems; and programming language translation process. |

| CSCI 150L — Assembly Language Laboratory 1 Unit | CSCI 220L — Data Structures I Laboratory 1 Unit | CNET 54 — PC Troubleshooting 4 Units |
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| (CAN CSCI10) Degree Applicable, CSU, UC (May be taken for Pass/No Pass only) 54 hours lab Corequisite: CSCI 150 Advisory: CSCI 140; language experience programming general and scientific algorithms and data structures in C++ or Java strongly recommended Complements the lecture material in CSCI 150. Development/debugging | (CAN CSCI22) Degree Applicable, CSU, UC (May be taken for Pass/No Pass only) 54 hours lab <i>Corequisite: CSCI 220</i> An independent study program designed to complement the lecture material presented in CSCI 220, Data Structures. Hands-on computer work will include problem solving in linear data structures, strings, and trees. | Degree Applicable 54 hours lecture 54 hours lab <i>Advisory: CNET 50 taken prior</i> Advanced microcomputer servicing. Includes: isolating, identifying, and repairing specific problems in the computer environment at the hardware level. Prepares students for the A+ Certification Exam. |
| completivity and rectain an escentistic rectain and escentestic rectain and es | CSCI 230 — Data Structures II 3 Units Degree Applicable, CSU, UC 54 hours lecture Prerequisite: CSCI 220 Corequisite: CSCI 230L Basic searching/sorting algorithms, hashing, graphs, memory/disk management, B-trees, advanced tree structures and analysis. CSCI 230L — Data Structures II Laboratory 1 Unit Degree Applicable, CSU, UC | CNET 56 — Computer Networks 4 Units Degree Applicable 54 hours lecture 54 hours lab <i>Advisory: CNET 54 taken prior</i> Standards, terminology, design, implementation and troubleshooting techniques as they relate to both Local and Wide Area Networks. Emphasis on hardware and software components, network architecture and data transmission methods. Of special interest to computer and network technicians and those seeking certification in A+, Network+, or other MSCE certifications. |
| organization and management, virtual memory, I/O devices management, file systems, networking, system administration for UNIX. CSCI 190 — Discrete Mathematics Applied to Computer Science Degree Applicable, CSU, UC 72 hours lecture Prerequisite: MATH 71 or equivalent Provides students with the mathematical background necessary in Computer Science: set theory, logic, modular arithmetic, combinatorics, finite probability and graphs. Topics include propositional and predicate calculus, recursion, binary search trees and counting techniques. CSCI 210 — Applied Logic for Computers 3 Units | (May be taken for Pass/No Pass only) 54 hours lab <i>Corequisite: CSCI 230</i> An independent study program designed to complement the lecture material presented in CSCI 230, Data Structures II. Hands on computer work will include problem solving in searching, sorting, and graphs. COMPUTER AND NETWORKING TECH CNET 50 — PC Servicing 4 Units Degree Applicable 54 hours lecture 54 hours lab | or other MSCE certifications. CNET 60 — A+ Certification Preparation 3 Units Degree Applicable 54 hours lecture Advisory: CNET 54 Prepares the student and qualified computer technician for the A+ certification examination. All aspects of the Core and OS test modules will be stressed through both lecture review and test simulation software. CNET 62 — Network+ Certification Preparation 3 Units Degree Applicable |
| Degree Applicable, CSU, UC 54 hours lecture <i>Prerequisite: CSCI 110</i> Basic concepts of digital systems, introduction to Boolean algebra, truth tables, Karnaugh maps, combinational elements and networks, state diagrams, state tables, sequential elements and networks. | Advisory: ELEC 50B taken prior or concurrently PC and peripheral servicing techniques, preventative maintenance, hardware configurations, software confirgurations, software diagnostics, and the use of test equipment. CNET 52 — PC Operating Systems 4 Units | Advisory: CNET 56 Prepares the student and/or A+ certified technician for the Network+ Certification Examination. Individuals preparing for a job in the computer networking industry or who wish to become Network+ certified will find this course invaluable. |
| CSCI 220 — Data Structures I 3 Units (CAN CSCI22) Degree Applicable, CSU, UC 54 hours lecture Prerequisite: CSCI 140 or CSCI 145 Corequisite: CSCI 220L Abstract data types and running time analysis tools. Linear data structures including sets, stacks, queues, and linked lists. Trees, binary search trees, heaps, and priority queues. Many procedures are discussed using an algorithmic language and selected problems are programmed in a higher level language. | Degree Applicable 54 hours lecture 54 hours lab <i>Advisory: CNET 50 taken prior</i> Current operating systems required for A+ and Network+ Certification and general computer servicing. Topics include: identification of major components, installation, configuration, upgrading and troubleshooting. | CNET 64 — Server + Certification Preparation 3 Units Degree Applicable 36 hours lecture 54 hours lab <i>Advisory: CNET 56 taken prior</i> Prepares the computer/network service technician for the CompTIA Server+ certification examination. |

| CNET 66 — Security + Certification Preparation 3 Units Degree Applicable 36 hours lecture 54 hours lab <i>Advisory: CNET 56 taken prior</i> Prepares the computer/network service technician for the CompTIA sponsored Security+ Certification examination. Security information is covered only as it pertains to enabling the service technician to troubleshoot a computer system that may have a security problem. | CORS 40 — Crime and Delinquency3 Units Degree Applicable54 hours lectureStepsee Applicable54 hours lectureCriminal behavior and types of crime and effects on society and victims. Stresses property crime, property offender, motivation, and methods of control used by society.CORS 45 — The Violent Offender3 Units Degree Applicable54 hours lectureStepse Applicable | COUN 20 — Peer Counselor Training 2 Units Degree Applicable, CSU 36 hours lecture <i>Prerequisite: Eligibility for ENGL 68</i> Designed for group experiences with interpersonal communication and discussion of approaches to peer counseling and advising at Mt. SAC. Provides opportunities for students to develop skills with a variety of communication styles that include open expression, active listening, and feedback. Upon completion of this course, opportunities may be available for students to become employed as peer counselors. |
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| CORRECTIONAL SCIENCES CORS 10 — Introduction to Correctional Sciences 3 Units Degree Applicable, CSU 54 hours lecture Overview of the field of corrections: county jail, probation, the California Youth Authority and the Department of Corrections as a member of the Criminal Justice System. Includes philosophy, past and the present practices and the criminal justice and correctional corrections as a | Violent crimes of felony assault, robbery, rape, the various types of homicide, and the characteristics of both the offender and the victim. COUNSELING COUN 1 — Introduction to College 1 Unit Degree Applicable, CSU (May be taken for Pass/No Pass only) 18 hours lecture Introduction to higher education and the college experience. Includes | COUN 51 — Career Planning 1 Unit Degree Applicable, CSU (May be taken for Pass/No Pass only) 18 hours lecture Designed for students who want assistance in making career decisions. A variety of assessments, inventories, and computer generated information will be used in analyzing the student's potential in the world of work. |
| CORS 15 — Control and Supervision of the Offender 3 Units Degree Applicable 54 hours lecture Examine methods of controlling and supervising inmates. Emphasizes California's methods in rapidly-expanding institutions. | orientation to college life and higher education resources. Explores graduation, transfer, and career options, factors in educational decision making. COUN 2 — College Success Strategies 3 Units Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) | COUN 54 — Single Parent Academy 3 Units Degree Applicable 54 hours lecture Develop personal, educational, and career/life planning skills for single parents. |
| CORS 20 — Correctional Law 3 Units Degree Applicable 54 hours lecture Legal and due process rights for inmates. Inmate rights vs. needs of society. State, federal, and appellate court decisions. | 54 hours lecture Assists students in evaluating their readiness for a successful college experience. Explores strategies and techniques to be an effective college student, including time management, study skills, college resources, career exploration and educational planning. Develops skills necessary to reach educational and career goals. | COUN 99A — Special Projects in Counseling 1 to 2 Units Degree Applicable, CSU (May be taken four times for credit) 18 to 36 hours lecture In order to offer selected students recognition for their academic interacts and ability and the expectuative to explore their disciplines to |
| CORS 25 — Probation and Parole3 Units Degree Applicable54 hours lectureHistorical development of probation and parole with emphasis on current California programs. Defines the roles of courts, parole boards and the duties and responsibilities of the staff of probation and parole agencies.CORS 30 — Ethnic Relations in Corrections3 Units | COUN 5 — Career/Life Planning 3 Units Degree Applicable, CSU 54 hours lecture <i>Prerequisite: Eligibility for ENGL 68</i> A systematic approach to self-exploration and career/life planning which includes identification of values, interests, skills and self- management style. Develop decision-making and goal-setting skills and | interests and ability and the opportunity to explore their disciplines to greater depth, the various departments from time to time offer Special Projects courses. Students must have instructor authorization before enrolling in this course. Students repeating this course will make individual contracts of a more advanced nature with the instructor to ensure that proficiencies are enhanced. DANCE |
| CORS 30 — Ethnic Relations in Corrections 3 Units Degree Applicable 54 hours lecture Historical development of probation and parole with emphasis on current California programs. Defines the roles of courts, parole boards and the duties and responsibilities of the staff of probation and parole agencies. CORS 35 — Interviewing and Counseling in Corrections 3 Units Degree Applicable 54 hours lecture Techniques of interviewing and counseling in the field of corrections with emphasis on practical application. Needs of the client and agency will be stressed. | identify barriers to success. Explores careers and job search techniques. COUN 7 — Introduction to the Transfer Process Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture <i>Advisory: ENGL 68</i> Introduction and orientation to the transfer process to a four-year institution. Includes an in-depth exploration of transfer requirements, admission procedures and requirements for majors. Also explores academic and support services, financial aid and other transitional issues to enable students to make informed choices on majors and four- year institutions and in academic planning. Field trips are required. | DNCE 1 — Ballet Fundamentals .5 to 2 Units Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 36 to 108 hours activity Fundamentals of ballet dance styles and an exploration of composition in the ballet dance form. Students who repeat this course will improve proficiency through continued instruction and practice. |

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| DNCE 2A — Ballet I .5 to 1 Unit Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity Basic vocabulary, technique, and movement combinations for ballet. Students who repeat this course will improve proficiency through continued instruction and practice. DNCE 2B — Ballet II .5 to 1 Unit Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity Intermediate technique, vocabulary and movement combinations of ballet. Students who repeat this course will improve proficiency through continued instruction and practice. DNCE 3 — Ballet Performance .5 to 1 Unit Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity Introduces the experienced dance student to the performance aspect of ballet. Provides the opportunity to develop the ability to analyze form leading to composition of advanced movement combinations. Students who repeat this course will improve proficiency through continued instruction and practice. DNCE 4 — Choreography .5 to 2 Units Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 36 to 18 hours activity | DNCE 11B — Social Dance Forms II .5 to 1 Unit Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity Advanced social dance technique. Focus on improving fundamentals of rhythm, dance positions, dance formations and introduction of advanced techniques to be used in the study of, but not limited to, Swing, Salsa, Foxtrot, Waltz, Folk, Polka, Cha Cha and Tango DNCE 12A — Modern I .5 to 1 Unit Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity Basic vocabulary, technique, and movement combinations for Modern dance. Students who repeat this course will improve skills through further instruction and practice. DNCE 12B — Modern II .5 to 1 Unit Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity Intermediate technique and movement combinations for modern dance. Students who repeat this course will improve skills through further instruction and practice. .5 to 2 Units DNCE 13 — Modern Performance .5 to 2 Units Dust 13 — Modern Performance .5 to 1 Unit May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) <th>DNCE 14B — Jazz II _5 to 1 Unit Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity Intermediate technique, movement combinations and routines for jazz dance. Students who repeat this course will improve skills through further instruction and practice. DNCE 15 — Jazz Performance _5 to 1 Unit Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity Introduces the experienced dancer to the performance aspect of jazz dance by providing advanced techniques leading to the performance of compositions. Students who repeat this course will improve skills through further instruction and practice. DNCE 17 — Jazz Fundamentals _5 to 2 Units Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 36 to 108 hours activity Fundamentals of jazz dance and an exploration of composition in jazz form. Students who repeat this course will improve skills through further instruction and practice. DNCE 18A — Tap I _5 to 1 Unit Degree Applicable, CSU, UC (May be taken foor option of letter grade or Pass/No Pass) 36 to 54 hours activity </th> | DNCE 14B — Jazz II _5 to 1 Unit Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity Intermediate technique, movement combinations and routines for jazz dance. Students who repeat this course will improve skills through further instruction and practice. DNCE 15 — Jazz Performance _5 to 1 Unit Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity Introduces the experienced dancer to the performance aspect of jazz dance by providing advanced techniques leading to the performance of compositions. Students who repeat this course will improve skills through further instruction and practice. DNCE 17 — Jazz Fundamentals _5 to 2 Units Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 36 to 108 hours activity Fundamentals of jazz dance and an exploration of composition in jazz form. Students who repeat this course will improve skills through further instruction and practice. DNCE 18A — Tap I _5 to 1 Unit Degree Applicable, CSU, UC (May be taken foor option of letter grade or Pass/No Pass) 36 to 54 hours activity |
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| (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity Designed to teach basic social dance techniques. Focus on fundamentals | Basic vocabulary, technique, movement combinations and routines for jazz dance. Students who repeat this course will improve skills through | who repeat this course will improve skills through further instruction |

| DNCE 19 — Tap Performance .5 to 1 Unit Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity Introduces the experienced dancer to the performance aspects of tap by providing advanced techniques leading to the performance of compositions. Students who repeat this course will improve skills through further instruction and practice. | DNCE 30 — Contemporary Dance .5 to 1 Unit Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity Provides the beginning to advanced dancer the opportunity to experience different techniques of leading contemporary dancers and choreographers. Students who repeat this course will improve skills through further instruction and practice. | DNCE 35 — Repertory 2 Units Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 108 hours activity Prerequisite: Admission by audition Provides the opportunity for the advanced dancer to learn choreography and to perform repertory pieces at workshops and special events. Students who repeat this course will improve skills through further instruction and practice. |
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| DNCE 22 — Dance Rehearsal .5 to 1 Unit Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity Designed for the experienced dancer to work in a rehearsal environment and to be a participant in the beginning elements of concert production. Students who repeat this course will improve skills through further instruction and practice. DNCE 24 — Dance Production 1 to 2 Units Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 54 to 108 hours activity Designed for the experienced dancer to apply previously learned | DNCE 31 — Classical Dance .5 to 2 Units Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 36 to 108 hours activity Provides the proficient ballet student the opportunity to experience the different schools of ballet technique. Students who repeat this course will improve skills through further instruction and practice. DNCE 32 — Commercial Dance .5 to 1 Unit Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity Provides the intermediate to advanced jazz dancer the opportunity to experience the different techniques of leading commercial dancers, | DNCE 39A — Alignment and Correctives I .5 to 1 Unit Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity Based on exercises and concepts developed by Joseph Pilates. Includes basic mat work, floor, special conditioning exercises and body awareness resulting in improved alignment, strength, flexibility, control, coordination and breathing. The mat work leads to apparatus work (on the professional reformer) emphasizing stretch, strength and trunk stability and alignment. Students who repeat this course will improve skills through further instruction and practice. DNCE 39B — Alignment and Correctives II .5 to 1 Unit Degree Applicable, CSU, UC |
| choreographic skill, to conduct stage rehearsals and learn costuming techniques. Students who repeat this course will improve skills through further instruction and practice. DNCE 28 — Theater Dance I .5 to 1 Unit Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity Provides an opportunity to learn simple dance excerpts from various theater musicals and/or movies. Students who repeat this course will improve skills through further instruction and practice. | Experience the different techniques of leading commercial darkers, teachers and choreographers. Students who repeat this course will improve skills through further instruction and practice. DNCE 33 — Improvisation .5 to 1 Unit Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity Provides the opportunity to experience the creative process of improvisation in dance and choreography. For all levels of Modern Dance. Students who repeat this course will improve proficiency through continued instruction and practice. | (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity Advisory: DNCE 39A Based on exercises and concepts developed by Joseph Pilates. Includes intermediate and advanced mat work. Focus will be primarily on apparatus work (on the professional reformer) developing in improved body alignment, strength, flexibility and control. Students who repeat this course will improve skills through further instruction and practice. DNCE 40 — Conditioning Through Dance .5 to 1 Unit Degree Applicable, CSU, UC (May be taken four times for credit) |
| DNCE 29 — Theater Dance II .5 to 1 Unit Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity Provides an opportunity to learn complex dance excerpts from various theater musicals and/or movies. Students who repeat this course will improve skills through further instruction and practice. | DNCE 34 — Dance Directives .5 to 1 Unit Degree Applicable, CSU (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity <i>Prerequisite: Admission by audition</i> Provides the intermediate or advanced student the practical experience to assist an instructor in the creation and instruction of a dance class. Students who repeat this course will improve proficiency through continued instruction and practice. | (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity Improves fitness through the coordination of dance exercises. Focuses on strength, flexibility and range of motion. Designed for the non- dancer. However, balance and coordination will benefit dancer and non-dancer alike. Students who repeat this course will improve skills through further instruction and practice. |

| Principles of the memory process as it applies to academic coursework. Focus on understanding the memory process, improving specific memory components, identifying key concepts to memorize, and the independent application of memory strategies to students' other academic courses. Students who repeat this course will improve skills through further instruction and practice. |
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| ELEC 11 — Technical Applications in Microcomputers 3 Units Degree Applicable, CSU 36 hours lecture 54 hours lab Use of the personal computer (PC) in electronics for technically related applications. Includes word processing, spreadsheets, database, computer presentation methods, e-mail, and job searches. ELEC 12 — Computer Simulation and Troubleshooting 2 Units Degree Applicable 18 hours lecture 54 hours lab Advisory: ELEC 51, ELEC 56 taken prior Use of the personal computer for simulation and troubleshooting of both analog and digital electronic circuits. Circuit analysis, value substitution, and fault diagnostics will be done with the emphasis on "Electronics Workbench/Multisim" software. ELEC 50A — Electronic Circuits (DC) 4 Units | ELEC 53 — Communications Circuits 4 Units Degree Applicable 54 hours lecture 54 hours lab 54 hours lab Advisory: ELEC 51 taken prior Analog and digital communications circuits. Emphasizes analog and digital modulation principles in AM, FM, SSB, PLL, FDM, TDM, modems, fiber optics, and telecommunications circuits. Includes multiplexing, antennas, and signal propagation. ELEC 54A — Industrial Electronics 4 Units Degree Applicable, CSU 54 hours lecture 54 hours lecture 54 hours lab Advisory: ELEC 51 taken prior Industrial electronic components and basic control circuits. Includes time delay controls, solid-state controls, relays, opto devices, DC motor control, transducers, SCR, and UJT devices. | ELEC 61 — Electronic Assembly and Fabrication 2 Units Degree Applicable, CSU 18 hours lecture 54 hours lab Assembly and fabrication techniques in basic soldering, de-soldering, and surface mount technology. Construction of coaxial and Category 5 cabling and connectors. Includes an overview of types of printed circuit board design. ELEC 62 — Advanced Surface Mount Assembly and Rework 2 Units and Rework Vot Degree Applicable (May be taken two times for credit) 18 hours lecture 54 hours lab Advisory: ELEC 61 Advanced course in assembly and repair (soldering) on surface mount assemblies. Prepares for the IPC surface mount assembly and rework |
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| Degree Applicable, CSU 54 hours lecture 54 hours lab Advisory: Eligibility for Math 51; ELEC 61 taken concurrently Direct Current (DC) electrical circuits and their applications. Covers DC sources, analysis, test equipment, measurements, and troubleshooting of resistive devices and other basic components. Includes Ohm's Law, Kirchhoff's law, and network theorems. (Students seeking a survey course in electronics should take ELEC 10, Introduction to Mechatronics, rather than ELEC 50A or 50B.) ELEC 50B — Electronic Circuits (AC) 4 Units Degree Applicable, CSU 54 hours lecture 54 hours lab Advisory: ELEC 50A taken prior Alternating Current (AC) electrical circuits and their applications. Covers AC sources, analysis (using complex numbers), test equipment, measurements, and troubleshooting of basic circuits with capacitors, inductors, and resistors. Includes impedance, resonance, filters, and | ELEC 54B — Industrial Electronic Systems3 Units Degree Applicable, CSU36 hours lecture54 hours lab54 hours labAdvisory: ELEC 54A taken priorExpands on circuit theory and demonstrates systems application of industrial electronics including robotics, industrial production and processes, automation, and programmable and motor controllers. Emphasis is on programmable logic controllers (PLCs).ELEC 55 — Microwave Communications4 Units Degree Applicable54 hours lecture 54 hours lab Advisory: ELEC 53 taken prior Microwave components and circuits and their applications with emphasis on satellite technology, including radar, GPS, and others. Stresses Gunn diode oscillators, transmission lines, waveguides, Smith Charts, components, amplification, frequency analysis, and measurement techniques. | certifications. ELEC 63 — Electronic Assemblies Recertification 1 Unit Degree Applicable (May be taken four times for credit) 9 hours lecture 27 hours lab Prerequisite: ELEC 62 Prepares the technician as an Application Specialist for the IPC- 7711/IPC-7721 Rework and Repair of Electronic Assemblies certification. (Note: Industry requires recertification every two years.) ELEC 66 — Electrical Code-Residential 3 Units Not Degree Applicable 54 hours lecture Advisory: ELEC 54B taken prior Introduction to the National Electrical Code requirements for residential wiring. Includes interpretation and review of electrical wiring diagrams, material use, installation methods, and calculation of electrical load to size feeders and conductors. Prepares for part of the California State Contractors C-10 Electrician license exam. |
| decibels. ELEC 51 — Electronic Devices 4 Units Degree Applicable, CSU 54 hours lecture 54 hours lab Advisory: ELEC 50B taken prior Solid-state devices and circuits, including BJT and FET transistors, rectifier diodes, op-amps, voltage regulators, thyristors, oscillators, timers, and their applications. Emphasizes configurations, classes, load lines, characteristics curves, gain, troubleshooting, measurements, and frequency response. | ELEC 56 — Digital Electronics 4 Units Degree Applicable, CSU 54 hours lecture 54 hours lab Microwave components and circuits and their applications with emphasis on satellite technology, including radar, GPS, and others. Stresses Gunn diode oscillators, transmission lines, waveguides, Smith Charts, components, amplification, frequency analysis, and measurement techniques. | ELEC 74 — Microprocessor Systems 4 Units Degree Applicable, CSU 54 hours lecture 54 hours lab Advisory: ELEC 56 taken prior Emphasizes the software/hardware architecture for the typical microprocessor environment. The software instruction set and the hardware interface circuit design are covered for the microprocessor. Fundamentals and terms are covered for the personal computer (PC). |

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| ELEC 76 — Radio Telephone Communications 3 Unit Not Degree Applicabl | | |
| 54 hours lecture Prepares qualified electronic technicians for the FCC and/or NARTE commercial licenses for technicians and engineers in the communications field. | 54 hours lecture 54 hours lab <i>Advisory: EST 50, EST 52</i> Cable and wire standards of video, voice, and data wiring for home | EMS 1 — Fundamentals for Paramedics 4 Units Degree Applicable 72 hours lecture Prerequisite: Completed Paramedic Program application, current California EMT I (Basic) certificate, and six months employment as an EMT I |
| ELEC 81 — Laboratory Studies in Electronics 1 to 2 Unit Technology Degree Applicabl (May be taken two times for credit) 54 to 108 hours lab | and other low voltage system installations. Emphasis on copper wire, | Advisory: Eligibility for ENGL 68 Overview of emergency medical services (EMS) competencies, current practices, medical terminology, emphasis on applied physiology and structure and function of human body systems. Pre-course for the Paramedic Program. |
| Advisory: ELEC 50B taken prior or concurrently Extended laboratory experience supplementary to that available in the regular program. Allows the student to pursue more advanced and complex laboratory projects and experiments. | Degree Applicable 54 hours lecture 54 hours lab Advisory: EST 54 | EMS 10 — Anatomy and Physiology for Paramedics 2 Units Degree Applicable 39 hours lecture Prerequisite: Admission to Paramedic Program and EMS 1 |
| ELEC 91 — Work Experience in Electronics 1 to 4 Unit Degree Applicabl (May be taken four times for credit) (May be taken for Pass/No Pass only) | hardware and programming, and the installation and servicing of such systems. Prepares students for the California State Contractors C-7 low | <i>Corequisite: EMS 20, EMS 30, EMS 40, EMS 50, and EMS 60</i> Gross anatomy and physiology of the human body, with applications to paramedic practices. |
| 75 to 300 hours lab Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog Advisory: ELEC 56 Provides actual on-the-job experience in Electronics at an approved work site which is related to classroom instruction. A minimum of five hours per week of supervised work (60 non-paid clock hours or 75 paid | | EMS 20 — Emergency Cardiac Care for Paramedics 1 Unit Degree Applicable 20 hours lecture 6 hours lab <i>Prerequisite: Admission to the Paramedic Program</i> <i>Corequisite: EMS 10, EMS 30, EMS 40, EMS 50, and EMS 60</i> Certifies paramedics in Basic Life Support (BLS-CPR), Pediatric Advanced Life Support (PALS), and Advanced Cardiac Life Support (ACLS). |
| clock hours per semester) is required for each one unit of credit. Students who repeat this course will improve skills through further instruction and practice. ELECTRONICS SYSTEMS TECHNOLOGY EST 50 — Electrical Fundamentals for Cable Installations 4 Unit | | EMS 30 — Pharmacology for Paramedics 2 Units EMS 30 — Pharmacology for Paramedics 2 Units Degree Applicable 39 hours lecture 13 hours lab Prerequisite: Admission to the Paramedic Program Corequisite: EMS 10, EMS 20, EMS 40, EMS 50, and EMS 60 |
| 54 hours lecture 54 hours lab | Advisory: EST 62 Troubleshooting advanced electronic video circuits and systems to component level. Includes digital TV and HDTV (plasma, LCD, DLP). | Commonly used paramedic drugs, with emphasis on dosages supplied and ordered, routes of administration, expected therapeutic outcomes and possible adverse reactions. |
| Electrical fundamentals for cable and wire installations, and other low voltage systems. Includes DC/AC, solid-state devices, digital and microprocessor devices and their application to cable installations. Prepares students for the California State Contractors C-7 low voltage systems license. | EST 70 — C-7 Low Voltage Systems License Preparation 2 Units Degree Applicable 36 hours lecture <i>Advisory: EST 56 or ECWT 56 taken prior</i> | EMS 40 — Cardiology for Paramedics 5 Units Degree Applicable 91 hours lecture Prerequisite: Admission to the Paramedic Program |
| EST 52 — Fabrication Techniques for 4 Unit Cable Installation Degree Applicabl 54 hours lecture 54 hours lab Fabrication techniques used in the installation of home theater, computer networks, home automation, and other low voltage system applications. | through further instruction and practice | <i>Corequisite: EMS 10, EMS 20, EMS 30, EMS 50, and EMS 60</i> Familiarizes the paramedic with the normal and the diseased heart; includes assessment tools, interpretation of various dysrhythmias and appropriate paramedic interventions. |
| Emphasis on hand and power tools, construction methods and materials as they apply to cable and wire installations. Prepares students for the California State Contractors C-7 low voltage systems license. | | |

| EMS 50 — Paramedic Skills Competency 4.5 Units Degree Applicable 52 hours lecture 104 hours lab Prerequisite: Admission to the Paramedic Program Corequisite: EMS 10, EMS 20, EMS 30, EMS 40, and EMS 60 Perfect the paramedic skills required for field operation as a paramedic and for certification in competency-based exams. EMS 60 — EMS Theory for Paramedics 8.5 Units Degree Applicable 156 hours lecture 156 hours lecture | EMT 91 — Emergency Medical Technician I Refresher 2 Units Degree Applicable (May be taken four times for credit) 40 hours lecture Prerequisite: Completion of a State or County Department of Health (or out-of-state) approved course and possession of a currently valid EMT-1 certificate or one which has expired for no more than 20 months Approved by the L.A. County and State Departments of Health. Required of all Emergency Medical Technician - I personnel every two years in order to maintain eligibility for employment in an emergency response | ENGR 24 — Engineering Graphics4 Units(CAN ENGR02)Degree Applicable, CSU, UC36 hours lecture108 hours lab108 hours labPrerequisite: ENGR 18 and eligibility for MATH 51Graphical expression through CAD, freehand sketching and instrument drawing; orthographic, isometric and oblique drawing and dimensioning, tolerancing. Fasteners, cams, gears, pipe drawings.Descriptive geometry: points, lines and planes. Intersections and developments of solids; sheet metal, electrical and civil engineering/ surveying drawings. |
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| Prerequisite: Admission to the Paramedic Program Corequisite: EMS 10, EMS 20, EMS 30, EMS 40, and EMS 50 Theories and principles of paramedic practices, including assessment skills, care of the sick and injured at a paramedic level, with applications to anatomy and physiology, pathologic processes, and mechanism of injury. | agency and to keep certification valid. Course covers all required material and current changes/updates in pre-hospital emergency care at the EMT-I level ENGINEERING ENGR 1 — Introduction to Engineering 1 Unit Degree Applicable, CSU, UC | ENGR 40 — Statics3 Units(CAN ENGR08)Degree Applicable, CSU, UC54 hours lecturePrerequisite: PHYS 4AStatic equilibrium of rigid bodies, forces, couples in two-and three- dimensional space. Application of equilibrium principles to trusses, frames and machines. Calculation of center of mass and centroid. |
| EMS 70 — Paramedic Clinical Internship 3.5 Units Degree Applicable (May be taken for Pass/No Pass only) 200 hours lab Application of concepts of paramedic theory and practices, with emphasis on patient assessment and utilization of paramedic skills in a hospital setting. | (May be taken for option of letter grade or Pass/No Pass) 18 hours lecture Introduction to the engineering profession; academic requirements; articulation agreements with four-year institutions; engineering ethics; professional engineering licensure; engineering study as a preparation for other careers; academic success strategies. | Friction, moment of inertia, distributed and concentrated loads. Forces in cables and beams. Fluid statics. Introduction to virtual work. Vector approach. ENGR 41 — Dynamics 3 Units Degree Applicable, CSU, UC 54 hours lecture |
| EMS 80 — Paramedic Field Externship 8.5 Units Degree Applicable (May be taken for Pass/No Pass only) 480 hours lab Prerequisite: Successful completion of Los Angeles County accreditation exam | ENGR 8 — Properties of Materials4 Units(CAN ENGR04)Degree Applicable, CSU, UC(May be taken for option of letter grade or Pass/No Pass)72 hours lecturePrerequisite: CHEM 40 or 50 and PHYS 4A or 2AGMechanical, electrical, magnetic, optical and thermal properties ofengineering materials and their relation to the materials' internal | Prerequisite: ENGR 40 Absolute and relative motion of particles and rigid bodies in translational and rotational motion. Instantaneous center of rotation. Application of Newton's Second Law, work-energy and impulse- momentum methods. Introduction to mechanical vibrations. Vector approach. |
| Corequisite: EMS 70 (may have been taken previously) Application of concepts of paramedic theory and practices, with emphasis on patient assessment and utilization of paramedic skills in a field setting on an operational paramedic unit. EMERGENCY MEDICAL TECHNICIAN EMT 90 — Emergency Medical Technician I 10 Units Degree Applicable | structure. Atomic structure and bonding; crystalline structures; phase and phase diagrams; metals; polymers; ceramics; composites; mechanical deformation and fracture; structural control and influence of properties; materials naming and designating systems; corrosion process; lasers; semiconductors; electronic packaging materials. ENGR 18 — Introduction to Engineering Graphics 3 Units Degree Applicable, CSU | ENGR 42 — Mechanics of Materials Degree Applicable, CSU, UC 54 hours lecture <i>Prerequisite: ENGR 40</i> Mechanics of deformable bodies subjected to axial, torsional, shearing, and bending loads. Combined stresses. Statically indeterminate structures. Deflection and stress analysis of beams. Stability of columns. Strain energy methods. Design of pressure vessels and structures. |
| 144 hours lecture 126 hours lab <i>Prerequisite: High school graduation or equivalent and minimum of 18</i> <i>years of age</i> Approved by the L.A. County and State Departments of Health. Emphasizes the development of skill in recognition of symptoms of illnesses and injuries, and proper procedures of pre-hospital emergency care. Awards an EMT - I Course Completion Certificate, necessary for many jobs in emergency care and is a prerequisite for entry into a Paramedic program and most fire department jobs. | (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture 54 hours lab Fundamental engineering graphics and problem solving techniques. Skills in freehand and instrument drawing are developed and applied to the solution of problems. Orthographic, isometric and oblique drawings. | ENGR 44 — Electrical Engineering4 Units(CAN ENGR06)Degree Applicable, CSU, UC54 hours lecture54 hours lecture54 hours labPrerequisite: PHYS 48Introduction to electrical circuit analysis; systems of units; applications of Kirchoff's Laws and Thevenin's Theorems to D-C and A-C circuits.Mesh and nodal analysis; RL and RC transients; phasors and steady-state sinusoidal analysis; response as a function of frequency; current, voltage, and power relationships; polyphase circuits; periodic forcing functions; Norton's Theorem; three-phase circuits. |

| ENGINEERING DESIGN TECHNOLOGY EDT 11 — Technical Engineering Drawing I 3 Units | EDT 20 — Technical Descriptive Geometry 3 Units Degree Applicable, CSU | EDT 89 — Engineering Design Technology 1 to 2 Units Work Experience |
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| Degree Applicable, CSU 36 hours lecture 72 hours lab <i>Advisory: Eligibility for MATH 51</i> Basic skills for a solid foundation in the Engineering Drawing or Computer-Aided Design fields. Involves application, basic sketch, theories and design processes used in engineering and industrial drawings. Completion of a portfolio is a requirement of this course. | 36 hours lecture 72 hours lab <i>Advisory: EDT 11</i> Advanced course for solving visual and spatial problems graphically. Applies the principles of orthographic projection and 3-D visualization to solve problems that involve lines, planes, intersections, auxiliary views, and developments. A time saving skill necessary for prospective engineers and technology students. | Degree Applicable (May be taken four times for credit) (May be taken for Pass/No Pass only) 75 to 150 hours lab <i>Prerequisite: Compliance with Work Experience regulations as designated</i> <i>in the College Catalog</i> Provides on-the-job experience in Engineering Design Technology at an approved work site using skills and knowledge from classroom instruction. A minimum of 75 paid or 60 non-paid clock hours per |
| EDT 12 — Technical Engineering Drawing II 3 Units Degree Applicable, CSU 36 hours lecture 72 hours lab Advisory: EDT 11 Advanced applications, automated techniques, dimensioning, tolerancing, fasteners, piping, circuit board design, theory used in engineering and industrial drawings. Students will complete a set of working drawings in either manual or CAD for inclusion in a portfolio. | EDT 24 — Engineering CAD 3-D 3 Units Degree Applicable, CSU 36 hours lecture 72 hours lab Advisory: EDT 18 Advanced engineering CAD for developing detailed working drawings in 3-D environments, incorporating 3-D parametric solid modeling, bill of materials, and surface development. EDT 26 — Civil Engineering Technology and CAD 3 Units | semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. This course is available to students achieving advanced standing (minimum 12 units in major or equivalent experience.) Students who repeat this course will improve skills through further instruction and practice. ENGLISH: COMPOSITION ENGL 1A — Freshman Composition 4 Units |
| EDT 14 — Mechanical Design - Geometric Dimensioning and Tolerancing 36 hours lecture 72 hours lab Advisory: EDT 11, EDT 12 | Degree Applicable, CSU 36 hours lecture 72 hours lab <i>Advisory: EDT 11, EDT 16</i> Theory of civil engineering projects with hands-on instruction in civil drawings and Computer Aided Drafting and Design (CAD) applications. | (CAN ENGLO2) Degree Applicable, CSU, UC 72 hours lecture <i>Prerequisite: ENGL 68 or satisfactory score on the English Placement Test</i> Develops effective expository writing skills; investigates the principles and methods of composition as applied to the writing of essays and the research paper; emphasizes critical reading of academic material. |
| Use of symbols for tolerance of form and tolerance of position and drawing requirements with respect to actual function and relationship of part features. Studies of related terminology, power transmission, bearing and mechanical devices, related exercises including design layout, details and assembly drawings. Completion of a portfolio is a requirement of this course. | Layout, topography maps, grading plans, sections, street improvements, and interpretation of surveyor's data are covered. Set of CAD drawings produced for a final portfolio. EDT 28 — Engineerng CAD 3D Illustration/Animation 3 Units Degree Applicable, CSU 36 hours lecture | ENGL 1AH — Freshman Composition - Honors4 Units(CAN ENGL02)Degree Applicable, CSU, UC72 hours lecturePrerequisite: Acceptance into the Honors ProgramDevelops effective expository writing skills; investigates the principlesand methods of composition as applied to the writing of essays and the |
| EDT 16 — Basic CAD and Computer Applications 4 Units Degree Applicable, CSU 54 hours lecture 54 hours lab Advisory: Eligibility for MATH 51 Basic CAD (Computer Aided Design and Drafting) and computer application in architecture, engineering and related fields (including basic word processing, spreadsheet, CAD and presentation applications). | 72 hours lab Advisory: EDT 18 Advanced CAD course in three-dimensional illustration using complex entities, shading, and animation techniques. A completed video portfolio will be developed. (SolidWorks, 3DS Max, Adobe PS). | research paper; emphasizes critical reading of academic material. An honors course designed to provide an enriched experience. Students may not receive credit for both ENGL 1A and ENGL 1AH. ENGL 1B — English - Introduction to Literary Types 3 Units (CAN ENGL04) Degree Applicable, CSU, UC 54 hours lecture Prerequisite: ENGL 1A or ENGL 1AH Critical, oral and written evaluation, analysis, and interpretation of short |
| EDT 18 — Engineering CAD Applications 4 Units Degree Applicable, CSU 54 hours lecture 54 hours lab Advisory: EDT 11, EDT 16 Intermediate CAD for engineering, explores the 2-D and 3-D environments, 3-D parametric solid modeling, file manipulation related to Windows platforms. | | and long fiction, poetry, and drama. Develops a foundation for personal, cultural, and intellectual growth. |

| ENGL 1BH — English - Introduction to Literary Types 3 Units - Honors 0 (CAN ENGL04) Degree Applicable, CSU, UC 54 hours lecture Prerequisite: ENGL 1A or ENGL 1AH and acceptance into the Honors Program Critical, oral, and written evaluation, analysis and interpretation of short and long fiction, poetry, and drama. Develops a foundatin for personal, cultural, and intellectual growth. An honors course designed to provide an enriched experience. Students may not receive credit for both ENGL | ENGL 8C — Creative Writing - Novel 3 Units Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture Prerequisite: ENGL 8A Elements, processes, and techniques of novel writing. Includes genre, settings, point of view, character sketch, plot development, description, and dialogue with an emphasis of student development as a writer of novels through practice and discussion. ENGL 8D — Creative Writing - Poetry Collection 3 Units | ENGL 10 — Writing Enhancement1 Unit Not Degree Applicable(May be taken for option of letter grade or Pass/No Pass)18 hours lectureLinked with a corresponding English course, this course provides hands- on writing activities designed to enhance student success and abilities in the linked course. Supplemental learning activities such as individualized instruction; individualized, self-paced practice; group work and student presentations.ENGL 64 — Writing Effective Sentences1 Unit |
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| 1B and ENGL 1BH. ENGL 1C — Critical Thinking and Writing Degree Applicable, CSU, UC 72 hours lecture Prerequisite: ENGL 1A or ENGL 1AH Develops critical thinking, reading, and writing skills beyond the level achieved in ENGL 1A. Increases the student's capacity for logical analysis and argumentative writing. | Charles of the end of | Not Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 18 hours lecture <i>Prerequisite: Eligibility for ENGL 67</i> Improve sentence writing skills through the analysis and application of sentence elements. Includes the identification and correction of common sentence problems, such as comma splice, fragment, and run- on. |
| ENGL 1CH — Critical Thinking and Writing - Honors 4 Units Degree Applicable, CSU, UC 72 hours lecture Prerequisite: ENGL 1A or ENGL 1AH and acceptance into the Honors Program Develops critical thinking, reading, and writing skills beyond the level achieved in ENGL 1A. The course will increase the student's capacity for logical analysis and argumentative writing. An honors course designed to provide an enriched experience. Students may not receive credit for both ENGL 1C and ENGL 1CH. | ENGL 8E — Creative Writing - Memoir 3 Units Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture Analysis and writing of memoirs including stylistic and syntactic forms and composition strategies used when writing memoir. ENGL 8F — Creative Writing - Nonfiction 3 Units Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) | ENGL 65 — Grammar Review1 Unit Not Degree Applicable(May be taken for option of letter grade or Pass/No Pass)18 hours lectureReview fundamentals of English for the student who needs a practical course focusing on usage and grammar: case, agreement, verbs, verbals, fragments, shifts in construction, dangling modifiers, diction, parallelism, comma-splice, and punctuation. Students who repeat this course will improve skills through further instruction and practice. |
| Both ENGL 1C and ENGL 1CH.ENGL 8A — Creative Writing - Fiction3 Units(CAN ENGL06)Degree Applicable, CSU, UC(May be taken for option of letter grade or Pass/No Pass)54 hours lecturePrerequisite: ENGL 1A or ENGL 1AHElements, processes, and techniques of fiction writing. Includes genre, settings, point of view, character sketch, plot development, description, and dialogue with an emphasis of student development as a writer of fiction through practice and discussion.ENGL 8B — Creative Writing - Poetry3 Units (CAN ENGL06)CAN ENGL06)Degree Applicable, CSU, UC(May be taken for option of letter grade or Pass/No Pass)54 hours lecturePrerequisite: ENGL 1A or ENGL 1AHEmphasizes the student's development as a poet. | Stations lecture Analysis and writing of creative nonfiction including stylistic and syntactic forms and composition strategies used when writing creative nonfiction. ENGL 9 — Writing the Personal Journal 3 Units Degree Applicable (May be taken for option of letter grade or Pass/No Pass) State Hours lecture Prerequisite: Eligibility for ENGL 1A Personal exploration, development of creativity, increased comfort with the writing process, and expanded awareness of others? lives through journal writing. Journal methods will be patterned after Dr. Ira Progoff's concept of creativity and growth as well other approaches to journal writing. | ENGL 66 — Paragraph Writing1 Unit Not Degree Applicable(May be taken for option of letter grade or Pass/No Pass)18 hours lectureAnalysis and writing of paragraphs. Through the process of writing, the student learns to state and support a topic idea. Students who repeat this course will improve skills through further instruction and practice.ENGL 67 — Writing Fundamentals4 Units Not Degree Applicable(May be taken for option of letter grade or Pass/No Pass) 72 hours lecture9Prerequisite: Satisfactory score on the English Placement Test or completion of AMLA 42W or completion of LERN 81 Using an integrated approach, develops effective writing based on reading; emphasizing the sentence, the outline, the summary, the paragraph and an introduction to the essay. Gives attention to grammar, punctuation and vocabulary. Develops critical thinking through reading comprehension in conjunction with related writing. |

| | | Course Descriptions |
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| ENGL 68 — Preparation for College Writing 4 Units | FAMILY AND CONSUMER SCIENCES | FASHION MERCHANDISING AND DESIGN |
| Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 72 hours lecture <i>Prerequisite: ENGL 67 or AMLA 43W or satisfactory score on the English</i> <i>Placement Test</i> Using an integrated approach, continues to develop effective writing based on reading. Reviews paragraph structure, emphasizes development of the academic essay, and introduces principles of documentation. Continues to develop critical thinking through reading of and writing about increasingly complex texts. | FCS 41 — Life Management3 Units Degree Applicable, CSU54 hours lectureLife Management provides individuals with skills for understanding and using resources for effective functioning now and in the future. Explores theories of management including Maslow's Hierarchy of Needs and systems thinking, and how they apply to the day-to-day use of one's resources including time, energy, abilities, and money. Major topics include steps in value clarification, goal setting, decision making, | FASH 1 — Fashion Design and CAD Lab1 Unit Degree Applicable(May be taken three times for credit) (May be taken for Pass/No Pass only) 54 hours lab Provides design and computer laboratory experience to supplement regular program, and provides opportunities for students to pursue more advanced projects. Students who repeat this course will improve skills through further instruction and practice. |
| ENGL 75 — Vocabulary Building 3 Units Not Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture Expands students' reading, writing and speaking vocabularies through | problem solving, time management, money management, education and career planning, communication skills, handling change and stress, and conflict management. In addition, the course explores the effect of cultural forces and future trends on goals, values, standards, and time management. FCS 51 — Consumer Skills, Issues, and Strategies 3 Units | FASH 8 — Introduction to Fashion 3 Units Degree Applicable, CSU 54 hours lecture Examines scope of the fashion industry from concept to consumer: industry background and technology. Includes design, manufacturing, distribution, sales and promotion with emphasis on career opportunities |
| examination of the principles of word formation, emphasizing prefixes, roots, suffixes and the effective use of dictionaries and other reference works. Students who repeat this course will improve skills through further instruction and practice. ENGL 81 — Language Acquisition 3 Units Degree Applicable, CSU | 54 hours lecture Consumer skills with an emphasis on practical applications in the marketplace. Topics include history of the consumer movement, consumer rights and responsibilities, financial wellness, consumer debt, behavior, fraud, and redress. Explores the relationship between consumer skills, careers, and job skills. | and qualifications. FASH 9 — History of Costume and Fashion 3 Units Degree Applicable, CSU 54 hours lecture A survey of Western costume and fashion from antiquity to contemporary times. Emphasis is placed on style development as it |
| 54 hours lecture Prerequisite: ENGL 1A Introductory course in language structure, linguistics, language development. Explores first and second-language acquisition. Meets the Commission on Teaching Credentialing standards for Language Acquisition requirement for elementary school teaching credential. | FCS 80 — Financial Planning 3 Units Degree Applicable, CSU 54 hours lecture Functional approach to personal finance, including budget systems, consumer credit, health care and insurance, debt collection systems, status obligation, accumulating reserves. Examines short-term and long- term financial goals. Applicable for participal and professional use | relates to social, economic and political forces, and the relationship of historic styles to current fashion. FASH 10 — Clothing Construction I 3 Units (CAN FCS10) Degree Applicable, CSU 36 hours lecture 54 hours lab |
| ENGL 99 — Special Projects in English 2 Units Degree Applicable, CSU (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture To offer selected students recognition for their academic interests and 10 | term financial goals. Applicable for personal and professional use. Students may not earn credit for both BUSA 71 and FCS 80. FCS 91 — Work Experience in Family and Consumer Sciences Degree Applicable (May be taken four times for credit) | Development of a basic understanding of industry standard apparel construction techniques using a variety of machines and equipment. Included are marker preparation, commercial patterns, basic block fusing, and garment construction of slim skirt/pants, dress/shirt, and knit "T" shirt. |
| ability and the opportunity to explore their disciplines to greater depth, the various departments from time to time offer Special Projects courses. The content of each course and the methods of study vary from semester to semester and depend on the particular project under consideration. Students repeating this course will make individual contracts of a more advanced nature with the instructor to ensure that proficiencies are enhanced. | (May be taken for Pass/No Pass only) 75 hours lab Prerequisite: Compliance with work experience regulations as designated in the College Catalog. Provides Family and Consumer Science majors with actual on-the-job experience in an approved work site related to classroom instruction. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended | FASH 12 — Clothing Construction II 3 Units Degree Applicable, CSU 36 hours lecture 54 hours lab Prerequisite: FASH 10 Industry-quick alternatives to traditional construction and tailoring techniques using overlock and single needle machines. Hands-on experience using woven fabrics for tailored clothing and novelty knits. |
| | that the hours per week be equally distributed throughout the semester. Work experience placement is not guaranteed but assistance is provided by the Family and Consumer Sciences faculty. Students who repeat this course will improve skills through further instruction and practice. | FASH 15 — Fashion Strategies3 Units(CAN FCS20)Degree Applicable, CSU54 hours lectureAn investigative overview of sociological, psychological, cultural and fashion industry influences on clothing selection. The elements and principles of design and their impact on dress will be explored. |

| FASH 17 — Textiles3 Units(CAN FCS06)Degree Applicable, CSU, UC54 hours lectureExamines the manufacturing of textiles/fabrics and factors thatdetermine the suitability for end use. Topics covered include natural andsynthetic fibers, yarns, fabric construction, dyes, finishes, legislation andcare. Emphasis is placed on selection criteria for textile product designand recent developments in the textile field.FASH 20 — Illustration for Fashion and Costume Design3 Units | FASH 24 — Fashion Patternmaking by Computer 3 Units Degree Applicable 36 hours lecture 54 hours lab Advisory: FASH 21 Study of the applications of Computer Aided Design (CAD) patternmaking and grading for the fashion industry. Exploration of drawing techniques, pattern development, flat pattern manipulation and the sizing/grading of patterns. | FASH 32 — Fashion Design and Product Development III 3 Units Degree Applicable 36 hours lecture 36 hours lecture 36 hours lab Prerequisite: FASH 31 Advanced fashion design and product development emphasizing, in portfolio format, a minimum of three lines with production flats, scale patterns, pattern charts, cost sheets and sample garments. A design sketchbook will be maintained. Includes resume preparation and job |
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| Degree Applicable 36 hours lecture 54 hours lab Drawing techniques for fashion and theatrical costume design. Application of the basic techniques used in drawing a well-proportioned male and female figure and in rendering garment flats using texture, fabric, and design detail. Students will explore a variety of mediums. FASH 21 — Patternmaking I 3 Units Degree Applicable, CSU 36 hours lecture | FASH 25 — Fashion Computer-Assisted Drawing3 Units Degree Applicable36 hours lecture36 hours lecture54 hours lab36 hours lectureAdvisory: FASH 2030 Drawing production flats, colorization and scanning images using computer as a drafting tool. Exploration of popular computer techniques and methods suitable for use in apparel industry. Concentration on Adobe Illustrator and Adobe Photoshop.FASH 26 — Fashion Computer Assisted Design2 Units | search appropriate for the fashion design industry. FASH 35 — Special Topics in Fashion Design 2 Units Not Degree Applicable (May be taken four times for credit) 18 hours lecture 54 hours lab Prerequisite: FASH 10 Provides exploratory design experience to enhance basic fashion design curriculum. Students will explore advanced garment design and/or construction techniques. Students who repeat this course will improve skills through further instruction and practice. |
| 54 hours lab Prerequisite: FASH 10 Theory and application of basic flat patternmaking techniques to create garment designs using industry standards. By means of dart and seam manipulation, slopers will be created, constructed and fitted. FASH 22 — Fashion Design By Draping 3 Units Degree Applicable 36 hours lecture 54 hours lab | Degree Applicable 18 hours lecture 54 hours lab Use an advanced, industry-specific CAD system to produce high-level graphic presentations. Create color palettes, textiles, and surface designs; explore texture mapping and how it is used to create a natural drape on the fashion figure; and use the computer as a layout design tool for swatches and vector flat drawings. FASH 30 — Fashion Design and Product Development 1 3 Units | FASH 62 — Retail Store Management and Merchandising 3 Units Degree Applicable, CSU 54 hours lecture Principles and practices used in the management and merchandising of retail stores. Includes all aspects of the critical buying function, merchandising, promotional techniques, site selection, layout, staffing, market positioning and customer service. Students may not receive credit for both FASH 62 and BUSS 50. |
| Prerequisite: FASH 10 Three dimensional dress design through draping fabrics directly to a dress form to create original designs or to interpret fashion illustrations. FASH 23 — Patternmaking II 3 Units Degree Applicable 36 hours lecture 54 hours lab | Degree Applicable 54 hours lecture <i>Advisory: FASH 15</i> Overview of the global environment for product development for fashion. Applies the concepts and methods by which retailers create special store-branded merchandise for targeted customer segments. Students will develop financial and design goals, create product concept and line-boards, and evaluate the aesthetic and commercial results. | FASH 63 — Advertising and Promotion3 Units Degree Applicable, CSU54 hours lectureDegree Applicable, CSU54 nours lectureCharacteristics and role of advertising and promotion in business are explored. Emphasis is placed on promotional mix, trend and forecast research, and developing a comprehensive multimedia promotion plan including advertising layout and copy. Students may not receive credit for both FASH 63 and BUSS 33. |
| Prerequisite: FASH 21 Intermediate pattern drafting and flat patternmaking, with the introduction to the sizing of patterns/grading. Development of patternmaking skills to include two-way stretch knits, swimwear, and complex construction. Students apply commercial manufacturing standards in producing size ranges for misses' and women's wear, to include skirts, pants, bodices, sleeves and collars. | FASH 31 — Fashion Design and Product Development II 3 Units Degree Applicable 36 hours lecture 54 hours lab Prerequisite: FASH 20, FASH 21 or 22, and FASH 30 Intermediate fashion students will create and maintain a personal design sketchbook and work with the basic categories of swim wear, active wear, children's and junior clothing. Industrial techniques of drawing production flats and design room sketches are taught in addition to the full fashion figure. Projects will include creation of lines including production flats, textile selection, cost sheets, full-color illustrations and full scale patterns. | FASH 66 — Visual Merchandising Display 3 Units Degree Applicable, CSU 36 hours lecture 54 hours lab Analysis of visual merchandising applied to interior and exterior displays and floor merchandising within the fashion industry. Includes psychology of store layout, current methods of visual merchandising, and use of mannequins, pinning, and flying. |

| FIRE 20 — Fire Instructor 1A2 Units Degree Applicable40 hours lectureAdvisory: FIRE 86 or equivalent taken priorState Board of Fire Service accredited course in fire service instructional techniques, including lesson plan development, performance goals, evaluation techniques, instructor performance goals, instructor responsibilities, the learning process, instructional aids and training records. This course applies to California Fire Service Training and Education System certifications.FIRE 21 — Fire Instructor 1B2 Units | FIRE 30 — Fire Management 1 2 Units Degree Applicable 40 hours lecture Advisory: FIRE 8 or FIRE 86 or equivalent taken prior 5 State Board of Fire Services accredited course in fire management designed to develop an understanding of the changing role of the fire officer, building leadership skills, appraising and developing employee performance and communication skills. FIRE 31 — Fire Management 2A - Organizational Development and Human Relations 2 Units Degree Applicable 0 | FIRE 40 — Fire Prevention 1A2 Units Degree Applicable40 hours lectureAdvisory: FIRE 5, FIRE 86, or equivalent taken priorFirst Level I course qualifies the student as a Certified Prevention Officer through the California Fire Service Training and Education System.Includes responsibilities of fire prevention personnel, procedures for correcting hazards, origin and history of fire prevention efforts in the U.S., basic fire prevention functions, occupancy identification, building preparation, record management, exit requirements, electrical hazards, plan review and safety education. |
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| 40 hours lecture Advisory: FIRE 20 or equivalent taken prior State Board of Fire Service accredited course in fire service instructional techniques, including methods of instruction, use of audio-visual equipment, employment of instructional aids, test construction, teaching demonstrations and reducing failure rates. This course applies to California Fire Service Training and Educational Systems certifications. FIRE 22 — Fire Instructor 2A | 40 hours lecture Advisory: FIRE 30 taken prior Level II California Fire Service Training and Education System chief officers certified course in basic principles of organization and development of general management skills. Includes problem solving, cultural diversity, motiivation, performance management and organizational politics. FIRE 32 — Fire Management 2B - Fire Service Financial Management Decree Applicable | FIRE 41 — Fire Prevention 1B2 Units Degree Applicable40 hours lectureAdvisory: FIRE 40 or equivalent taken priorSecond Level I California Fire Service Training and Education System certified course in fire prevention. Includes relationship of life safety codes and building construction principles, exiting requirements, fire protection systems, basic electrical theory, fire drills and training, fire inspection reports, plans specifications processing, and fire prevention complaints. |
| 40 hours lecture Advisory: FIRE 21 or equivalent taken prior Level II preparation for fire science instructors training officers with emphasis on techniques of evaluation, test planning, constructing and using manipulative tests, test analysis, critiques, test security and records. A State Board of Fire Science accredited course. FIRE 23 — Fire Instructor 2B 2 Units | 40 hours lecture Advisory: FIRE 30 Budget preparation and financial management of personnel, stations, fire equipment, and other fire department resources. FIRE 33 — Fire Management 2D - Master Planning in the Fire Service Degree Applicable | FIRE 42 — Fire Prevention 1C 2 Units Degree Applicable 40 hours lecture Advisory: FIRE 40 and FIRE 41 or equivalent taken prior Third Level I California Fire Service Training and Education System certified course in fire prevention. Includes physical properties of flammable and combustible liquids, storage practices, transportation |
| 40 hours lecture Advisory: FIRE 21 or equivalent taken prior Organizational communication skills for training officers with emphasis on leadership, interpersonal relations, developing and conducting staff meetings, assertive and argumentative presentations and encouraging staff participation. A State Board of Fire Science accredited course. FIRE 24 — Fire Instructor 2C 2 Units Degree Applicable 40 hours lecture Advisory: FIRE 21 or equivalent taken prior | 40 hours lecture Advisory: FIRE 31 For fire personnel responsible for master planning fire protection needs for a city, county or state fire agency. Covers program and master planning, forecasting, systems, policy analysis and design. FIRE 34 — Fire Management 2E - Personnel and Labor 2 Units Degree Applicable 40 hours lecture Advisory: FIRE 31 For fire supervisors and managers responsible for supervision, implementing department policies, diversity, labor relations, human | and controlling of flammable and liquified gases.FIRE 43 — Fire Prevention 2A2 UnitsDegree Applicable40 hours lectureAdvisory: FIRE 40, FIRE 41, FIRE 42 or equivalent taken priorFirst Level II California Fire Service Training and Education Systemcertified course in fire prevention for career fire personnel. Includesstandards, laws and regulations pertaining to construction requirementsfor buildings, sprinklers and alarm systems, installation procedures andrequirements associated with fire protection systems.FIRE 44 — Fire Prevention 2B2 Units |
| Preparation for fire personnel instructor/ training officer. Principles of media use in the instruction process, selection of audio-visual and instructional media, employment of basic advanced forms of instructional media, use of computers in the instructional process, individual instructional programs. A State Board of Fire Science accredited course. | resources and legal issues. | Degree Applicable 40 hours lecture <i>Advisory: FIRE 40, FIRE 41, FIRE 42 or equivalent taken prior</i> Second Level II California Fire Service Training and Education Systems certified course in fire prevention for fire personnel. Includes interpreting the fire and building codes, California codes of regulation pertaining to fire and life safety standards. |

| FIRE 45 — Fire Prevention 2C 2 Units Degree Applicable 20 40 hours lecture 20 Advisory: FIRE 40, FIRE 41, FIRE 42 or equivalent taken prior 1 Third Level II California Fire Service Training and Education System 2 certified course in fire prevention for fire personnel. Includes standards 1 required for industrial ovens, cleaning and finishing processes, welding, refrigeration systems, medical gasses and fireworks. 2 FIRE 50 — Fire Command 1A 2 2 Degree Applicable 2 2 | FIRE 55 — Fire Command 2D - Disaster Planning and Management 2 Units Degree Applicable 240 hours lecture 40 hours lecture 240 hours lecture Advisory: FIRE 51 taken prior 240 Level II California Fire Service Training and Education System chief officer certified course for supervisory and managerial fire service 250 personnel responsible for emergency disaster planning and implementing the Standard Emergency Management System, emphasizing the integrated team approach to managing emergencies. 200 personnel responsion | FIRE 68 — Title 19/24 Workshop 1 Unit Degree Applicable (May be taken for Pass/No Pass only) 24 hours lecture Advisory: FIRE 40 or equivalent taken prior California Fire Service Training and Education System certified accredited course in fire prevention for fire personnel. Includes standards required for understanding, interpreting and applying State Fire Marshall's Regulation requirements based on type of occupancy, construction, fire extinguishing systems, exits, alarm systems and institutional occupancies. |
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| 40 hours lecture Advisory: FIRE 7, FIRE 86 taken prior Level I California Fire Service Training and Education System certified course designed for first-in incident commander and company officers. Includes command principles for company officers, initial decision and action processes at a working fire, fire behavior, fireground resources, operations and management. | FIRE 56 — Fire Command 2E - Wildland Fire Control 2 Units Degree Applicable 40 hours lecture Advisory: FIRE 51 For supervisory and managerial fire service personnel responsible for management and coordination of an extended wildland fire incident. FIRE 60 — Fire Investigation 1A 2 Units | FIRE 85 — Special Issues in Fire Technology 2 Units Degree Applicable (May be taken four times for credit) (May be taken for Pass/No Pass only) 36 hours lecture Develops knowledge and techniques to enablefire service employees to understand and handle the special problemsthat arise in various phases of the fire science. Special emphasis will be placed on a particular |
| FIRE 51 — Fire Command 1B 2 Units Degree Applicable 40 hours lecture <i>Advisory: FIRE 50 or equivalent taken prior</i> Level I California Fire Service Training and Education System certified course designed for first-in incident commander and company officers. Provides incident management information on tactics, strategies, and scene management for multi-casualty incidents, hazardous materials incidents, and wildland fires. | Degree Applicable 40 hours lecture <i>Advisory: FIRE 10, FIRE 86, or equivalent taken prior</i> Level I California Fire Service Training and Education System certified course designed for firefighters, fire investigators and law enforcement officers assigned to fire investigation. Includes a basic overview of fire scene investigation with the focus on fire scene indicators and determine the fire's cause and origin. | FIRE science. Special emphasis will be placed on a particular problem as the need arises. Students who repeat this course will improve skills through further instruction and practice. FIRE 86 — Basic Fire Academy 12 Units Degree Applicable 138 hours lecture Basic Fire Academy 12 Units Degree Applicable 138 hours lecture Basic Fire Academy Basic Fire Academy 12 Units Degree Applicable Basic Fire Academy Degree Applicable Degree Applicable |
| FIRE 52 — Fire Command 2A - Command Tactics at Algor Fires Not Degree Applicable Advisory: FIRE 51 For fire officers managing fires using the Incident Command System | FIRE 61 — Fire Investigation 1B 2 Units Degree Applicable 40 hours lecture 40 hours lecture Advisory: FIRE 60 or equivalent taken prior Level I California Fire Service Training and Education System certified course designed for firefighters and investigation personnel. Includes juvenile fire setter, report writing, evidence preservation and collection, interview to being and the prior | <i>Corequisite: PE-F 53</i> Instruction in the proper use of standard fire department apparatus and equipment, salvage covers and fire extinguishment techniques, etc., in accordance with the State Board of Fire Services. Prepares students to meet manipulative skills standards established by the local fire agencies, associations and unions. |
| (ICS) when commanding multiple alarms. Includes unified command structures and areas of geographical divisions. FIRE 53 — Fire Command 2B - Management of Major Hazardous Material Incidents 2 Units Degree Applicable 240 hours lecture Advisory: FIRE 51 51 For fire officers responsible for hazardous material responses. Includes community planning, research, legislation enforcement and litigation | interview techniques, motives and fatalities. FIRE 62 — Fire Investigation 2A - Fire 2 Units Cause Determination 1 Not Degree Applicable 40 hours lecture Advisory: FIRE 60, FIRE 61 Designed for in-service fire personnel completing their Fire Investigation II Certification and provides the information to successfully investigate, apprehend, and convict arsonists. | FIRE 88 — Explorer Fire Academy 2 Units Not Degree Applicable (May be taken for Pass/No Pass only) 22 hours lecture 48 hours lab Specialized Fire Academy designed for fire explorers. Instruction in the proper use of fire and rescue apparatus and equipment and fire extinguishing techniques in accordance with the State of California Fire Marshall's Office. |
| from hazardous material responses. FIRE 54 — Fire Command 2C - High-Rise Fire Tactics 2 Units Degree Applicable 40 hours lecture Advisory: FIRE 51 A system-based approach applied to high-rise fires. Includes pre-fire planning, building inventory, problem identification, ventilation methods, water supply, elevators, life safety and strategy and tactic operations. | FIRE 63 — Fire Investigation 2B - Fire 2 Units Cause Determination 2 Not Degree Applicable 40 hours lecture Advisory: FIRE 61 and FIRE 62 Designed for in-service fire personnel completing their Fire Investigation II Certification that builds on the Fire Investigation 1 course (FIRE 62). | FIRE 89 — Firefighter Exam Preparation .5 Unit Not Degree Applicable (May be taken for Pass/No Pass only) 8 hours lecture Prepares applicants for entry-level firefighter positions for the CWH Research Inc. Firefighter Exam, offered in conjunction with the Los Angeles Area Fire Chief's Association. Two four-hour sessions including administration of written examination. |

| FIRE 91 — Fire Academy Ladders 1 Unit Not Degree Applicable (May be taken for Pass/No Pass only) 8 hours lecture 32 hours lab Intensive training in ladder manipulation to prepare students for Fire Academy and physical fitness tests given by the fire departments. FIRE 96 — Work Experience Fire Science 2 Units Degree Applicable (May be taken four times for credit) (May be taken for Pass/No Pass only) | FRCH 3 — Intermediate French4 Units(CAN FREN08)Degree Applicable, CSU, UCCAN FREN SEQ B(May be taken for option of letter grade or Pass/No Pass)72 hours lecturePrerequisite: FRCH 2 or equivalentExpansion of vocabulary and structural components. Furtherdevelopment of communicative proficiency with increasing emphasis onreading and writing. Extensive exposure to culture from France andother French-speaking countries.FRCH 4 — Continuing Intermediate French4 Units | FRCH 53 — Intermediate Conversational French 3 Units Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture Prerequisite: FRCH 2 or FRCH 52 or equivalent Develops intermediate level fluency through expansion of vocabulary and practical use of language. FRCH 54 — Continuing Intermediate Conversational French Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) |
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| 150 hours activity Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog Work experience in fire service at an approved work site which is related to classroom instruction. A minimum of 75 paid or 60 non-paid | (CAN FREN10) Degree Applicable, CSU, UC CAN FREN SEQ B (May be taken for option of letter grade or Pass/No Pass) 72 hours lecture Prerequisite: FRCH 3 or equivalent | 54 hours lecture <i>Prerequisite: FRCH 3 or FRCH 53 or equivalent</i> Develops intermediate-high fluency through further expansion of vocabulary and practical use of language. |
| clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. This course is available to students achieving a minimum of 12 units in fire service. Students who repeat this course will improve skills through further instruction and practice. | Continued development of competencies with the goal of attaining intermediate high-level proficiency in French. Increasing emphasis on reading and writing. Extensive exposure to cultural elements such as art, music, film, and history from France and other French-speaking countries. | FRCH 60 — French Culture Through Cinema 3 Units Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture French culture and history as presented in classic and recent French films. Analysis of characters and political, social and artistic movements |
| FRENCHFRCH 1 — Elementary French4 Units(CAN FREN02)Degree Applicable, CSU, UCCAN FREN SEQ A72 hours lectureIntended for students without previous exposure to French. Begins to develop the ability to converse, read and write in French. Emphasis is on oral proficiency. Includes the study of principles of language learning, pronunciation, basic vocabulary and grammatical structures. Extensive exposure to the cultures of French-speaking countries. | FRCH 5 — Advanced French 4 Units Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 72 hours lecture Prerequisite: FRCH 4 or equivalent Provides further insight into the cultures of France and other French-speaking countries to reach an advanced level of proficiency in the language. Includes analysis of short literary works from diverse cultures, and group discussions about contemporary topics found in films and newspaper articles. | in France and other Francophone countries as reflected in the works of French-speaking film directors and writers. Lectures and class discussions conducted in English. All films with English subtitles. GEOGRAPHY GEOG 1 — Elements of Physical Geography (CAN GEOG02) Degree Applicable, CSU, UC 54 hours lecture <i>Prerequisite: Eligibility for ENGL 68</i> Study of the natural processes that interact to create the Earth's varying hurise and comparison of the interaction of the comparison of the state |
| FRCH 2 — Continuing Elementary French4 Units(CAN FREN04)Degree Applicable, CSU, UCCAN FREN SEQ A72 hours lecture | FRCH 6 — Continuing Advanced French 4 Units Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 72 hours lecture Prerequisite: FRCH 5 or equivalent | physical environments with emphasis on the inter-relationships of natural processes and systems. General atmospheric circulation, Earth- sun relationships, oceanic circulation, water and energy budgets, plate tectonics, and the shaping of the physical landscape. GEOG 1H — Elements of Physical Geography - Honors 3 Units |
| Prerequisite: FRCH 1 or equivalent Further development of conversational, reading and writing skills in French, with emphasis on communicative skills, expansion of vocabulary and understanding of structure. Extensive exploration and analysis of the cultures of French-speaking countries. | Extensive reading and analysis of short literary works from diverse French and French-speaking cultures. Discussion of films, newspaper articles and contemporary topics. Develops fluency in French through group discussions, oral presentations, and writing. | Degree Applicable, CSU, UC 54 hours lecture Prerequisite: Acceptance into the Honors Program Study of the natural processes that interact to create the Earth's varying physical environments with emphasis on the inter-relationships of |
| | FRCH 52 — Conversational French 13 Units Degree Applicable(May be taken for option of letter grade or Pass/No Pass)54 hours lecturePrerequisite: FRCH 1 or equivalentDevelopment of intermediate French conversational skills. Emphasis on collaborative activities and practical use of the language. Extensive exposure to French culture. Grammar is presented in context. | natural processes and systems. General atmospheric circulation, Earth- sun relationships, oceanic circulation, water and energy budgets, plate tectonics, and the shaping of the physical landscape. An honors course designed to provide an enriched experience. Students may not receive credit for both GEOG 1 and GEOG 1H. |

| GEOG 1L — Physical Geography Laboratory 1 Unit Degree Applicable, CSU, UC 54 hours lab <i>Corequisite: GEOG 1 or GEOG 1H (may have been taken previously)</i> Observations, experiments and demonstrations in a laboratory setting to explore natural earth processes and systems. | GEOG 8 — The Urban World 3 Units Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture The geographical analysis of past and current patterns of world urbanization. Emphasis will be placed on city origins, growth, development, and current problems. | GEOLOGY GEOL 1 — Physical Geology 4 Units (CAN GEOLO2) Degree Applicable, CSU, UC 54 hours lecture 54 hours lab Prerequisite: Eligibility for MATH 51 Degree Applicable, CSU, UC |
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| GEOG 1LH — Physical Geography Laboratory - Honors 1 Unit Degree Applicable, CSU, UC 54 hours lab Prerequisite: Acceptance into the Honors Program Corequisite: GEOG 1 or GEOG 1H (may have been taken previously) Observations, experiments and demonstrations in a laboratory setting to explore natural earth processes and systems. An honors course designed to provide an enriched experience. Students may not receive credit for | GEOG 10 — Introduction to Geographic Information Systems Degree Applicable, CSU, UC 36 hours lecture 54 hours lab Advisory: Eligibility for ENGL 68 Hands-on training in the principles, theory and operations of | An introduction to geological thinking and Earth processes. Essentials of minerals, rocks, earthquakes, volcanoes, and landscapes are presented within a framework of plate tectonics operating in concert with atmosphere and ocean processes. A required course for students entering the geosciences major. May be taken by the non-major as a transferable lab science. Required field trips may involve overnight camping. |
| both GEOG 1L and GEOG 1LH. GEOG 2 — Human Geography 3 Units (CAN GEOG04) Degree Applicable, CSU, UC 54 hours lecture Prerequisite: Eligibility for ENGL 68 Introduction to human geography with emphasis on critical areas of inquiry and research. Focus on the interconnections of place and process in several sites around the globe; comprehension of important terms and concepts; and basic literacy in the geography of place names and in | geographic information systems (GIS), including geospatial data models, analytical functions, data quality, map design and visual communication, and social and environmental applications of GIS. GEOG 11 — Intermediate GIS 3 Units Degree Applicable 54 hours lecture <i>Prerequisite: GEOG 10</i> Surveys GIS fundamentals including hands on experience using hardware/software. Emphasizes vector-based data using ArcGIS and | GEOL 2 — Historical Geology4 Units(CAN GEOL04)Degree Applicable, CSU, UC54 hours lecture5454 hours labPrerequisite: GEOL 1 or equivalentGeologic principles are applied in tracing the tectonic, biologic, andclimatic development of Earth, mainly North America, through geologictime. The study of Earth history using geologic maps, cross-sections,minerals, rocks, and fossils is integrated with basic field methods.Required field trips may involve overnight camping. |
| world regional understanding. GEOG 2H — Human Geography - Honors Degree Applicable, CSU, UC 54 hours lecture <i>Prerequisite: Acceptance into the Honors Program</i> Introduction to human geography with emphasis on critical areas of inquiry and research. Focus on the interconnections of place and process in several sites around the globe; comprehension of important terms and concepts; and basic literacy in the geography of place names and in world regional | raster-based data using the software extensions. GEOG 30 — Geography of California 3 Units Degree Applicable, CSU, UC 54 hours lecture Thematic approach to issues, processes and topics relevant to the study of California. Includes an examination of the physical processes that shape the landscapes of California, the interaction of humans with these physical processes (particularly the importance of water), and the cultural and social landscapes that have evolved as a result of this | GEOL 3 — Paleontology, Life of the Past 4 Units Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture 54 hours lab An introduction to paleontology including the history of paleontology, methods in paleontology, processes of evolution and the floral and faunal succession through geologic time. |
| understanding. An honors course designed to provide an enriched experience. Students may not receive credit for both GEOG 2 and GEOG 2H. GEOG 3 — Map Reading and Interpretation 3 Units Degree Applicable, CSU 54 hours lecture Provides basic map reading skills with an emphasis on map projections, earth grid systems, principles of map reading, interpretation and use of an atlas. Introduction to skills needed to use and appreciate maps as a | human-environment interface. GEOG 99 — Special Projects in Geography 2 Units Degree Applicable, CSU (May be taken four times for credit) 36 hours lecture Offers selected students recognition for their academic interest and ability and the opportunity to explore their disciplines in depth. Various departments sometimes offer Special Projects courses. The content of | GEOL 6 — Earthquakes 1 Unit Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 18 hours lecture Discussions of seismic hazards in relation to life and property. Includes the study of seismic safety legislation, socio-economic impacts and prediction of earthquakes. GEOL 7 — Geology of California 3 Units Degree Applicable, CSU, UC |
| form of communication and as a research tool. GEOG 5 — World Regional Geography 3 Units Degree Applicable, CSU, UC 54 hours lecture Advisory: Eligibility for ENGL 68 Developmental study of the world's regions, addressing the major countries in terms of population, resources, economic development, physical environment, and geographic problems. | each and the methods of study vary from semester to semester and depend on the particular project under consideration. Students repeating this course will make individual contracts of a more advanced nature with the instructor to ensure enhanced proficiencies. | 54 hours lecture Introductory geology course highlighting the natural provinces of California, namely their mineral, rock, and petroleum resources, volcanoes and earthquakes, landscapes, and geologic history as influenced by plate tectonic and surface processes. Field trips are required and may involve overnight camping. |

COURSE DESCRIPTIONS

| GEOL 8 — Earth Science 3 Units Degree Applicable, CSU, UC 54 hours lecture A survey course that introduces fundamentals of geology, oceanography, meteorology, and astronomy. The companion Earth Science laboratory (GEOL 8L) is recommended for students needing a lab to transfer to a 4-year college/university. Field trips are required. GEOL 8H — Earth Science - Honors 3 Units Degree Applicable, CSU, UC 54 hours lecture Prerequisite: Acceptance into the Honors Program An honors course designed to provide an enriched experience. Introduces fundamentals of geology, oceanography, meteorology, and astronomy. The companion Earth Science laboratory (GEOL 8L) is recommended for students needing a lab to transfer to a 4-year college/university. Field trips are required. Students may not receive credit for both GEOL 8 and GEOL 8H. GEOL 8L — Earth Science Laboratory 1 Unit Degree Applicable, CSU, UIC 1 Unit | GEOL 12A — Natural History of California 3 Units Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture 54 hours lab Field study of the natural history of the Sierra Nevada and adjacent regions. One 3 day and one 4 day weekend field trip will be required. Students may not receive credit for both BIOL 12A and GEOL 12A. GEOL 12B — Natural History of California 3 Units Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture 54 hours lab Field study of Peninsular Ranges, Transverse Ranges, Mojave and Colorado Deserts of southern California. Laboratory work is done during one 3-day and one 4-day weekend field trip. Students may not receive credit for both BIOL 12B and GEOL 12B. GEOL 13 — Evolution of the Earth 3 Units Degree Applicable, CSU UIC | GEOL 17 — Field Geology, Death Valley 3 Units Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture 34 hours lab Field studies of the geology of Death Valley and the Basin and Range Province. 2 Units GEOL 19 — Geology Field Studies 2 Units Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 18 hours lecture 54 hours lab 54 hours lab Geologic field studies of the Southern California landscape to include the Transverse Ranges, Coast Ranges, San Andreas Fault, Great Valley, Sierra Nevada, Owens Valley, and the western Mojave Desert. GEOL 24 — Geologic Field Studies: Central California 3 Units Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture 54 hours lab Geologic field studies of the Southern California landscape to include the Transverse Ranges, Coast Ranges, San Andreas Fault, Great Valley, Sierra Nevada, Owens Valley, and the western Mojave Desert. GEOL 24 — Geologic Field Studies: Central California 3 Units Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture 36 hours lecture 36 hours lecture |
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| Degree Applicable, CSU, UC 54 hours lab <i>Corequisite: GEOL 8 or GEOL 8H (may have been taken previously)</i> Laboratory applications and problem-solving in geology, oceanography, meteorology, and astronomy. Recommended for students needing a lab to transfer to a 4-year college/university. | Degree Applicable, CSU, UC 54 hours lecture Origin and evolution of the atmosphere, oceans and continents. Special concentration on the developing landforms through the study of plate tectonics. | 36 hours lecture 54 hours lab Field studies of selected central California geological provinces and surrounding areas. Overnight field trips required. Trips require significant hiking. |
| GEOL 9 — Environmental Geology 3 Units Degree Applicable, CSU, UC 54 hours lecture For non-science majors. Relevant aspects of the geological environment and the problems caused by modern humans as they use the earth and its resources. Geologic hazards, including earthquakes, volcanoes, landslides, floods, subsidence. Emphasis on geological viewpoints concerning waste disposal, pollution, geothermal energy, fossil fuels, and mining. Geologic practices related to sound land management, conservation of resources, and protection of the environment. Field trips included. GEOL 10 — Natural Disasters 3 Units Degree Applicable, CSU, UC 54 hours lecture Surveys the hazards faced by humans from the natural environment. | GEOL 14 — Field Geology, Sierra Nevada 3 Units Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture 54 hours lab Field studies of the Sierra Nevada geologic provinces and the surrounding areas. GEOL 15 — Field Geology, Mojave Desert 3 Units Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture 54 hours lab Field studies of the geology of the Mojave Desert and surrounding areas. GEOL 16 — Field Geology, Coast Ranges 3 Units Degree Applicable, CSU | GEOL 99 — Special Projects in Geology 2 Units Degree Applicable, CSU 36 hours lecture In order to offer students the opportunity to explore their disciplines to greater depth, the various departments from time to time offer Special Projects courses. The content of each course and the methods of study vary from semester to semester, and depend on the particular project under consideration. Students must have an instructor's authorization before enrolling in this course. Students repeating this course will make individual contracts of a more advanced nature to ensure that proficiencies are enhanced. GERM 1 — Elementary German 4 Units (CAN GERM 02) Degree Applicable, CSU, UC CAN GERM SEQ A 72 hours lecture |
| Analyzes a variety of hazards from a geological perspective. Studies the impact humans have on influencing or exacerbating natural disasters. Includes the role of government in responding to natural disasters. Field trips included. | (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture 54 hours lab Field studies of the geology of the Coast Ranges and the San Andreas Fault System. | Prerequisite: Eligibility for ENGL 68 For students with no previous German. Develops the ability to converse, read, and write in German. Emphasis on oral proficiency. Includes the study of essentials of pronunciation, vocabulary, idioms, and grammatical structures along with an introduction to Germanic culture. |

| (CAN GERM04)Degree Applicable, CSU, UCCAN GERM SEQ A72 hours lecturePrerequisite: GERM 1 or equivalentFurther development of conversational reading and writing skills inGerman with emphasis on communication skills, expansion ofvocabulary, and understanding of structure. Further study of Germanic | | HIST 8 — History of the United States 3 Units (CAN HIST10) Degree Applicable, CSU, UC CAN HIST SEQ B 54 hours lecture <i>Prerequisite: Eligibility for ENGL 1A</i> Survey of American history from 1865 to the present. Designed for history, social science, or humanities majors, or for transfer students who need a year course in United States history to meet general education requirements. Satisfies the requirement for a course in |
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| Curture. GERM 3 — Intermediate German 4 Units (CAN GERM08) Degree Applicable, CSU, UC CAN GERM SEQ B (May be taken for option of letter grade or Pass/No Pass) | CAN HIST SEQ C 54 hours lecture | education requirements. Satisfies the requirement for a course in American history, including the study of American institutions and ideals and the principles of State and local government as required by Title 5 of the California Administrative Code. HIST 8H — History of the United States - Honors 3 Units (CAN HIST10) Degree Applicable, CSU, UC |
| Prerequisite: GERM 2 or equivalent Further development of communicative proficiency in German and exploration of Germanic culture. Further study and review of grammar and expansion of vocabulary. Increasing emphasis on reading and writing in German. HISTORY HIST 1 — History of the United States 3 Units Degree Applicable, CSU, UC 54 hours lecture Prerequisite: Eligibility for ENGL 68 | HIST 7 — History of the United States 3 Units (CAN HIST08) Degree Applicable, CSU, UC CAN HIST SEQ B 54 hours lecture Prerequisite: Eligibility for ENGL 1A Survey of American history from 1865 to the present. Designed for history, social science, or humanities majors, or for transfer students who need a year course in United States history to meet general education requirements. Satisfies the requirement for a course in American history, including the study of American institutions and ideals and the principles of State and local government as required by | (CAN HIST 10) Degree Applicable, CSU, UC CAN HIST SEQ B 54 hours lecture <i>Prerequisite: Acceptance into the Honors Program</i> Survey of American history from 1865 to the present. Designed for history, social science, or humanities majors, or for transfer students who need a year course in United States history to meet general education requirements. Satisfies the requirement for a course in American history, including the study of American institutions and ideals and the principles of State and local government as required by Title 5 of the California Administrative Code. An honors course designed to provide an enriched experience. Students may not receive credit for both HIST 8 and HIST 8H. |
| present designed for transfer students who need a one-semester course in United States history to meet general education requirements. (Social Science majors should take History 7-8.) Satisfies the requirement for a course in American history, including the study of American institutions and ideals as required by Title 5 of the California Administrative Code. HIST 3 — History of World Civilization 3 Units | Title 5 of the California Administrative Code. HIST 7H — History of the United States - Honors 3 Units (CAN HIST08) Degree Applicable, CSU, UC CAN HIST SEQ B 54 hours lecture <i>Prerequisite: Acceptance into the Honors Program</i> Survey of American history from Native American origins through post- | HIST 10 — History of Asia 3 Units Degree Applicable, CSU, UC 54 hours lecture Survey history of China, Japan, India, South Asia, and Southeast Asia from the pre-historical era to 1600. Topics include Asian mysticism and religions, art and literature, warfare and political systems, the splendor |
| (CAN HIST14) Degree Applicable, CSU, UC CAN HIST SEQ C 54 hours lecture | Survey of American history from Native American origins through post- Civil War Reconstruction with an encompassing approach to the United States and its major ethnic and social groups. Explores the influence of the geography and environment of North America and the ethnic, social, and religious complexity of the population. Also examines | of the imperial courts, and the lives of the peasants. HIST 11 — History of Asia 3 Units Degree Applicable, CSU, UC 54 hours lecture |
| HIST 3H — History of World Civilization - Honors 3 Units (CAN HIST14) Degree Applicable, CSU, UC CAN HIST SEQ C 54 hours lecture Prerequisite: Acceptance into the Honors Program | political, philosophical, and intellectual influences on the founding fathers, American political institutions, and the citizens of the country. Satisfies the requirement for a course in American history, including the study of American institutions and ideas and the Constitution of the United States as required by Title 5 of the California Administrative | Surveys history of China, Japan, Southeast Asia, India, and the colonial systems from 1600 into the 21st Century. Emphasizes the confrontation between Asia and the Western world. Topics include economic and political systems, religion and art, the splendor of the courts, peasant life and the civil and international wars. |
| The rise and development of civilization from the Stone Age to 1500 An | Code. An honors course designed to provide an enriched experience. Students may not receive credit for both HIST 7 and HIST 7H. | HIST 16 — The Wild West - A History, 1800-1890 3 Units Degree Applicable, CSU, UC 54 hours lecture <i>Prerequisite: Eligibility for ENGL 68</i> Surveys the history of the Trans-Mississippi West to acquaint students with the historical significance, events and personalities which make up 19th Century American history. |

| HIST 19 — History of Mexico 3 Units Degree Applicable, CSU, UC 54 hours lecture The cultural and social history of the Mexican people from pre- Colombian civilization to modern Mexico. HIST 30 — History of the African American Degree Applicable, CSU, UC | HIST 39 — California History 3 Units Degree Applicable, CSU, UC 54 hours lecture Prerequisite: Eligibility for ENGL 68 68 The social, intellectual, economic, and political development of California and the Pacific Coast from earliest times to the present. HIST 40 — History of the Mexican American HIST 40 — History 3 Units | HT 2 — Scientific Basics for Histologic Technicians 3 Units Degree Applicable 54 hours lecture Advisory: Eligibility for ENGL 68 Defines all aspects of general laboratory issues including general laboratory protocols (GLP's), safety, ethics, and terminology relative to the preparation of tissue samples. |
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| 54 hours lecture <i>Prerequisite: Eligibility for ENGL 68</i> In the general framework of the U.S. historical process, surveys the history of African Americans from the African genesis to 1865, including historical processes and their impact on modern U.S. society. A critical analysis will be made of the contributions of African Americans to the historical development of the United States, and the transformations that have occurred as a result. Satisfies the requirement for a course in American institutions and ideals and the Constitution of the United States as required by Title 5 of the California Administrative Code. | Degree Applicable, CSU, UC 54 hours lecture <i>Prerequisite: Eligibility for ENGL 68</i> A survey of United States history from colonial times to the present with a special emphasis on the role of La Raza (Hispanics) in the development of the nation. Satisfies the requirement for a course in American History, including the study of American institutions and ideals as required by Title 5 of the California Administrative Code. HIST 44 — History of Native Americans 3 Units | HT 10 — Histology 3 Units Degree Applicable 36 hours lecture 54 hours lab Advisory: ANAT 35 Microscopy, image analysis; cell structure, reproduction and staining. Identification of tissues, organs and special microstructures, and their detailed morphology. Involves distinguishing normal features from pathological conditions. |
| HIST 31 — History of the African American 3 Units Degree Applicable, CSU, UC 54 hours lecture In the general framework of the U.S. historical process, surveys the history of African Americans from the Reconstruction period to the present, including historical processes and their impact on modern U.S. society. A critical analysis will be made of the contributions of African Americans to the historical development of the United States, and the transformations that have occurred as a result. Satisfies the requirement | Degree Applicable, CSU 54 hours lecture Advisory: Eligibility for ENGL 1A Survey of the history of the United States from Colonial times to the present with a special emphasis on the role of Native Americans. Examines the role Euro-American social, political, and economic movements play in the Native American experience and the mutual relationships generated through these factors. Critically analyzes how the Native American narrative is woven into the fabric of U.S. history and is an essential component of the complete American story. | HT 12 — Beginning Histotechniques 5 Units Degree Applicable 54 hours lecture 108 hours lab Prerequisite: HT 2 Advisory: MICR 22 Practical applications and skill-building in tissue fixation, processing, embedding, sectioning, hematoxylin-eosin staining, and microorganism staining. Quality control as it relates to routine histological techniques and equipment. |
| for a course in American institutions and ideals and the Constitution of the United States as required by Title 5 of the California Administrative Code. HIST 35 — History of Africa 3 Units Degree Applicable, CSU, UC 54 hours lecture Surveys African civilization with major emphasis placed upon political, social and cultural developments. African history will be traced from prehistoric times through colonialism and the emergence of independent African states in the 21st Century. The American relationship with Africa will be considered | HIST 99 — Special Projects in History 2 Units Degree Applicable, CSU 36 hours lecture To offer selected students recognition for their academic interests and ability and the opportunity to explore their disciplines to a greater depth, the various departments from time to time offer Special Projects courses. The content of each course and the methods of study vary from semester to semester and depend on the particular project under consideration. Students repeating this course will make individual contracts of a more advanced nature with the instructor to ensure that | HT14 — Advanced Histotechniques4 Units Degree Applicable54 hours lecture54 hours lab54 hours labPrerequisite: HT 12Special stains for carbohydrates, amyloid, connective tissues, muscle and nervous tissues, including silver stains. Introduction to immunostains, in situ hybridization and microwaving techniques. Provides the opportunity to gain proficiency in skills acquired in HT 12, Beginning Histotechniques. |
| relationship with Africa will be considered. HIST 36 — Women in American History - Beyond 3 Units the Stereotypes Degree Applicable, CSU, UC 54 hours lecture An introductory course placing women's experience within the context of the major themes of American history, addressing issues and debates related to gender construction and identity. Political, economic, and social currents as well as cross cultural dynamics are critically examined and analyzed as are gender theory and practices in the context of ethnicity, class, and nation. This course satisfies the requirement for a course in American history including the study of American institutions and ideals, as required by Title 5 of the California Administrative Code. | Proficiencies are enhanced. HISTOTECHNOLOGY HT 1 — Introduction to Histotechnology 1 Unit Degree Applicable 18 hours lecture Advisory: Eligibility for ENGL 68 An overview of the role of histotechnicians in preparation and analysis of tissues samples for diagnostic and research purposes. Introduction to Internet resources, support organizations and periodical references for histotechnicians, as well as regulatory agencies. Students will set up an educational plan and portfolio to be used throughout the remainder of the program. | HT 16 — Histo/Immunohistochemistry 4 Units Degree Applicable 54 hours lecture 54 hours lab <i>Prerequisite: HT 12</i> Fundamentals of enzyme and immunological reactions as they relate to tissue staining. |

| HUMANITIES | INTERIOR DESIGN | ID 170 — Space Planning 3 Units |
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| HUMA 1 — The Humanities 3 Units Degree Applicable, CSU, UC 54 hours lecture Prerequisite: Eligibility for ENGL 68 An interdisciplinary study of the artistic, musical, literary and philosophical accomplishments and achievements of women and men in western society from the ancient Middle East to the present. | ID 100 — Fundamentals of Interior Design 3 Units Degree Applicable, CSU 54 hours lecture Application of design principles and elements in planning of total interior environments that meet individual, functional, legal and environmental needs. Selection of all materials and products used in interior environments will be emphasized for the functional aesthetic | Degree Applicable, CSU 36 hours lecture 54 hours lab <i>Advisory: ID 100 or ID 130 or ARCH 11 or ARCH 21</i> The application of programming theory and techniques in residential and commercial space planning. Skills in drafting and presentation techniques are emphasized in the studio. |
| Emphasizes creating an awareness of human expression as it occurs in a historical and philosophical context. INSPECTION AND ESTIMATING, BUILDING INSP 17 — Legal Aspects of Construction 3 Units Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture Advisory: INSP 70 taken prior or concurrently or equivalent experience Fundamentals of the legal aspects of the construction industry involving | quality. (Recommend concurrent enrollment in ID 105) ID 105 — Interior Design Studio I 2 Units Degree Applicable, CSU 18 hours lecture 54 hours lab Corequisite: ID 100 (may have been taken previously) Studio course designed to apply concepts and theories presented in the lecture course, ID 100. It is recommended that this course be taken concurrently with the lecture class. Emphasis is placed on design process | ID 180 — History of Interior Architecture and Furnishings I 3 Units Degree Applicable, CSU 54 hours lecture The historical relationship between the decorative arts, period furniture and interior architecture is illustrated in this overview of design heritage from antiquity through the 19th Century in France. Emphasis is placed on style development as it relates to social, economic and political influences. |
| homeowner, contractor and builder/developer. Includes codes, licensing, bonds, and lien laws. INSP 67 — Reading Construction Drawings 3 Units Degree Applicable 54 hours lecture Fundamentals of reading construction drawings as related to architecture, construction, interior design, and related fields. INSP 70 — Elements of Construction 3 Units Degree Applicable, CSU | in developing solutions for design projects. ID 120 — Interior Design Careers 2 Units Degree Applicable, CSU 36 hours lecture Advisory: Eligibility for ENGL 68 A survey of the Interior Design profession, industry, related occupations and work sites. The course will emphasize personal, educational, and professional qualifications required for entry into the Interior Design and related professions. ID 130 — Applied Color and Design Theory 4 Units | ID 190 — History of Interior Architecture and Furnishings II 3 Units Degree Applicable, CSU 54 hours lecture Advisory: ID 180 and Eligibility for ENGL 68 The historical relationship between the decorative arts, period furniture and interior architecture is illustrated in this overview of design heritage. This course begins with Sixteenth Century England and America and analyzes the influences and changes in design to the present. Emphasis is placed on style development as it relates to social, economic and political forces. |
| 54 hours lecture Fundamentals of construction processes, terminology and procedures. Provides an overview of the construction industry to those who may have an interest in the construction industry and related fields. INSP 71 — Construction Estimating 3 Units Degree Applicable, CSU 54 hours lecture Basics of bidding procedures and interrelationship of documents and estimating. Detailed calculation of cost based on the amount of required building materials using actual working drawings, estimating forms, and cost data courses. INSP 87 — Fundamentals of Construction Inspection 3 Units Degree Applicable 54 hours lecture Advisory: Completion of a curriculum in building construction or equivalent experience Construction inspection of light frame wood construction and steel structures. Topics include vertical and horizontal loads, stress analysis, framing and structural standards of lumber and steel, metallurgy and welding. | 54 hours lecture 54 hours lab Design theory and application. Utilization of tools, materials, and equipment to develop technical skills applicable to interior, architectural and other related fields of design. Exploration of cultural heritage and psychological implication of design. ID 150 — Interior Materials and Products 4 Units Degree Applicable, CSU 72 hours lecture Advisory: ID 100 Analysis, application, and evaluation of products and materials used in Interior Design. Includes interior textiles, furnishings and finish materials and products. | ID 210 — Fundamentals of Lighting 3 Units Degree Applicable 54 hours lecture Advisory: ID 100, ARCH 11 or equivalent experience The fundamentals of lighting, design, theory and application including the history and vocabulary of lighting; how light affects color and vision, incandescent and fluorescent lamps, lighting techniques for interior designers, codes, and energy efficient lighting practices. ID 215 — Interior Design Studio II 2 Units Degree Applicable, CSU 18 hours lecture 54 hours lab Prerequisite: ID 105 Advisory: ID 130 and ID 170 Develop, analyze and apply design concepts to interior environments. Universal design, "green" design, space planning, lighting systems, interior components, architectural elements and specification writing will be integrated into research projects emphasizing problem solving approach. |

| ID 230 — Business and Professional Practice 3 Units 54 hours lecture Degree Applicable 54 rerequisite: ID 100 Advisory: ID 120 The business and professional management of an interior design practice including legal issues, project management and business practices. ID 240A — Interior Design Internship Seminar 1 Unit Degree Applicable | ID 250 — Codes and Specifications for Interior Design 2 Units Degree Applicable, CSU 36 hours lecture Advisory: ID 215 Explores local, state, and federal regulations, codes and specifications concerning life-safety issues, ADA, and universal design requirements relative to residential and contract design. Attention is given to performance, health safety, and universal design for estimating and specifying interior materials and products. ID 260 — Rendering and Rapid Visualization 2 Units | ITAL 3 — Intermediate Italian4 Units(CAN ITAL08)Degree Applicable, CSU, UCCAN ITAL SEQ B72 hours lecturePrerequisite: ITAL 2 or equivalentDevelopment of intermediate Italian language skills and their use as tools in exploring Italian civilization. Further study and review of grammar, exercises in word building, derivation and the extension of the active and recognition vocabularies. Extensive exposure to Italian culture, such as film, music and history. |
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| (May be taken two times for credit) 18 hours lecture <i>Corequisite: ID 240B and ID 120 (may have been taken previously)</i> <i>Advisory: ID 170 (may have been taken previously)</i> Students share and critique experiences, emphasizing professionalism and problem solving techniques related to internship experience (ID 240B). Students who repeat this course will have additional learning experiences by being placed in a different work site. | Degree Applicable, CSU 18 hours lecture 54 hours lab Application of the methods, techniques and tools used in illustrating interior spaces and products with an emphasis on rapid production. ID 265 — Interior Design Studio III - Kitchens Degree Applicable 18 hours lecture | ITAL 4 — Continuing Intermediate Italian4 Units(CAN ITAL10)Degree Applicable, CSU, UCCAN ITAL SEQ B(May be taken for option of letter grade or Pass/No Pass)72 hours lecturePrerequisite: ITAL 3 or equivalentFurther practice in speaking and writing of intermediate Italian.Collateral reading in Italian. Extensive exposure to cultural elementsfrom Italy such as art, music, film and history. |
| ID240B — Interior Design Internship1 Unit Degree Applicable(May be taken two times for credit) (May be taken for Pass/No Pass only) 75 hours lab Corequisite: ID 240ASupervised internship related to classroom-based learning at a work site related to Interior Design. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. Internship placement is not guaranteed, but assistance is provided by Interior Design faculty. Students who repeat this course will improve skills through further instruction and practice.2 Units Degree Applicable(May be taken two times for credit) 150 hours lab Corequisite: ID 240B (may have been taken previously) Supervised internship related to classroom-based learning at a National Kitchen and Bath member work site. A minimum of 75 paid of 60 non- paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. Internship placement is not guaranteed, but assistance is provided by Interior Design faculty. Students who repeat this course will improve skills through further instruction and practice. | 54 hours lab Analysis and application of the design process to space planning, materials and finish choices, codes application, and selection of specialized equipment unique to the planning of kitchens. Design solutions for kitchens will be developed in the studio. ID 275 — Interior Design Studio IV - Bath Design 2 Units Degree Applicable, CSU 18 hours lecture 54 hours lab Analysis and application of the design process for space planning, specifications of materials and equipment for bathrooms. ITALIAN ITAL 1 — Elementary Italian (CAN ITALO2) CAN ITAL SEQ A 72 hours lecture Intended for students without previous exposure to Italian. Includes the study of essentials of pronunciation, vocabulary, idioms, and grammatical structures along with an introduction to Italian culture. Begins to develop the ability to converse, read, and write in Italian. ITAL 2 — Continuing Elementary Italian (CAN ITALO4) Degree Applicable, CSU, UC CAN ITAL SEQ A 72 hours lecture Prerequisite: ITAL 1 or equivalent Further development of conversational, reading and writing skills in Italian with special emphasis on verbs, grammar and extension of vocabulary. Further study of Italian culture. | ITAL 5 — Advanced Italian 4 Units Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 72 hours lecture Prerequisite: ITAL 4 or equivalent Emphasis is placed on increased facility to read and write advanced Italian. Cultural insights are developed through the study of various Italian Literary types. ITAL 6 — Continuing Advanced Italian 4 Units Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 72 hours lecture Prerequisite: ITAL 5 or equivalent Extensive advanced reading, writing, and speaking in Italian that further develop cultural insight through the study of various Italian literary types. ITAL 52 — Conversational Italian 3 Units Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture Prerequisite: ITAL 1 or equivalent Prerequisite: ITAL 1 or equivalent Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture Prerequisite: ITAL 1 or equivalent Degree Applicable Development of elementary Italian conversational skills. Emphasis on collaborative activities and practical use of the language. Extensive exposure to Italian culture. Grammar is presented in context. |

| ITAL 53 — Continuing Conversational Italian3 Units Degree Applicable, CSU, UC(May be taken for option of letter grade or Pass/No Pass)54 hours lecturePrerequisite: ITAL 2 or ITAL 52 or equivalentDevelopment of intermediate Italian conversational skills. Emphasis on collaborative activities and practical use of the language. Extensive exposure to Italian culture. Grammar is presented in context. | JAPN 3 — Intermediate Japanese 4 Units (CAN JAPN08) Degree Applicable, CSU, UC CAN JAPN SEQ B 72 hours lecture Prerequisite: JAPN 2 or equivalent Continued development of Kanji (50 or more characters) with 60 additional readings. Continued development of writing ability emphasizing development of thought through Kanji, Hiragana and Katakana, Additional development of cultural application of Lapanese | JOUR 101 — Beginning News Writing 3 Units (CAN JOUR02) Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture Prerequisite: ENGL 1A Evaluating, gathering, and writing news in accepted journalistic style under newsroom conditions. Includes role of the reporter and the legal and ethical issues relating to reporting. The student will have writing and more reporting accepted induction. |
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| ITAL 54 — Advanced Conversational Italian 3 Units Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture Prerequisite: ITAL 3 or ITAL 53 or equivalent Development of advanced Italian conversational skills. Emphasis on collaborative activities and practical use of the language. Extensive exposure to Italian culture. Grammar is presented in context. Students who repeat this course will improve their skills through further | Katakana. Additional development of cultural application of Japanese.JAPN 4 — Continuing Intermediate Japanese4 Units(CAN JAPN10)Degree Applicable, CSU, UCCAN JAPN SEQ B72 hours lecturePrerequisite: JAPN 3 or equivalentFurther practice in listening comprehension, communicative proficiency, writing and reading in Japanese. Advanced study and review of grammar and vocabulary. Readings and discussions of Japanese cultural | and reporting experiences, including personal interviews, speech, meeting and other event coverage, deadline writing, and use of AP style. JOUR 102 — Intermediate Newswriting 3 Units Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture <i>Prerequisite: JOUR 101 or JOUR 1A</i> Development of intermediate news reporting techniques combined with |
| instruction and practice. ITAL 60 — Italian Culture Through Cinema 3 Units Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture Italian culture through cinema from 1900 through analysis of the aesthetic, literary, artistic and philosophical movements in Italy as reflected in the works of the Italian film makers and writers. Lecture and class discussion to be conducted in English; film presentation with English subtitles. | topics and introduction to Japanese literature. JAPN 5 — Advanced Japanese a Units Degree Applicable, CSU, UC 72 hours lecture Prerequisite: JAPN 4 or equivalent Advisory: Eligibility for ENGL 68 Advanced Japanese communication skills with emphasis on conversational skills for daily and social settings in Japanese culture. Advanced study of grammar, vocabulary, Kanji characters, listening, speaking, reading, and writing. Extensive exposure to cultural elements from Japan such as art, music, film, and history. | the composition of complex journalistic writing forms. JOUR 103 — Working on the Newspaper 3 Units Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 18 hours lecture 108 hours lab Practical experience preparing the college newspaper. Duties may include reporting, story writing, photography, layout and design and copy editing. Students who repeat this class will improve skills through further instruction and practice. |
| JAPANESEJAPN 1 — Elementary Japanese4 Units(CAN JAPN02)Degree Applicable, CSU, UCCAN JAPN SEQ A72 hours lectureIntended for students without previous exposure to Japanese. Begins to develop the ability to converse, read, and write in Japanese. Includes the study of essentials of pronunciation, vocabulary, idioms, and grammatical structures. Introduction to Japanese culture.JAPN 2 — Continuing Elementary Japanese4 Units | JAPN 53 — Conversational Japanese 3 Units Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture <i>Prerequisite: JAPN 2 or equivalent</i> Development of intermediate Japanese conversational skills. Emphasis on collaborative activities and practical use of the language. Extensive exposure to Japanese culture. Grammar is presented in context. JOURNALISM | JOUR 104 — Newspaper Layout and Design 3 Units Degree Applicable (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture 54 hours lab An introduction to newspaper design using desktop publishing techniques. Includes hands-on experience publishing the student newspaper. Students who repeat this course will improve skills through further instruction and practice. |
| (CAN JAPN04) Degree Applicable, CSU, UC CAN JAPN SEQ A 72 hours lecture <i>Prerequisite: JAPN 1 or equivalent</i> Further development of conversational, reading and writing skills in Japanese with special emphasis on verbs, grammar, and extension of vocabulary. Includes a discussion of Japanese culture. | JOUR 100 — Mass Media and Society3 Units(CAN JOUR04)Degree Applicable, CSU, UC(May be taken for option of letter grade or Pass/No Pass)54 hours lecturePrerequisite: ENGL 1ASurvey of the mass media and the interrelationships of media withsociety, including history, structure, and trends. Additionally, thefollowing topics will be covered as they pertain to the mass media:economics, technology, law and ethics and such social issues as genderand cultural diversity. | JOUR 105 — Editor Training1 Unit Degree Applicable(May be taken four times for credit)(May be taken for option of letter grade or Pass/No Pass)54 hours labAdvisory: JOUR 101 or JOUR 1AStresses leadership skills in a journalistic setting using the student newspaper as a practical laboratory. Designed for students selected to serve as editors or managers of the paper. Students who repeat this course will improve skills through further instruction and practice. |

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| JOUR 106 — Introduction to Visual Journalism 3 Units Degree Applicable, CSU (May be taken two times for credit) (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture 36 hours lab <i>Corequisite: COMP 60 (may have been taken previously)</i> Photojournalism assignments using still, digital, and video cameras for offset printing (newspaper, magazine, etc.) and digital Web presentations. Basics of photojournalism, digital camera operation, shooting techniques, photo-editing software, cutline writing, video and audio production and editing, and Web homepage design production. Students who repeat this course will improve skills through further instruction and practice. JOUR 107 — Race, Culture, Sex, and Mass Media Images 3 Units Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture Advisory: ENGL 1A Studies the role mass media plays in the social, political, and economic integration of minorities, cultures, women, and gays and lesbians into American society. Examines ways that mass media impacts public attitudes and behaviors. JOUR 108 — Writing for Public Relations 3 Units Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture <i>Prerequisite: JOUR 101 or JOUR 1A</i> An introduction to public relations writing including news releases, fact sheets, featu | JOUR 110 — Magazine Writing and Production 3 Units Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture 54 hours lab Prerequisite: JOUR 101 or JOUR 1A Production of a student-run magazine in a professional setting. Activities may include fiction and nonfiction writing, editing, ethics, interviewing, photography, art and layout. Overview of the magazine industry and markets explored. JOUR 111 — Broadcast News Writing Just colspan="2">Just colspan="2">Just colspan="2">Just colspan="2">Just colspan="2">Activities may include fiction and nonfiction writing, editing, ethics, interviewing, photography, art and layout. Overview of the magazine industry and markets explored. JOUR 111 — Broadcast News Writing 3 Units JOUR 111 — Broadcast News Writing for radio and television. Newscast Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) S4 hours lecture Prerequisite: JOUR 1A or JOUR 101 Intensive news gathering and writing for radio and television. Newscast planning, story organization, and functions of a broadcast newsroom are explored. Emphasis on assignments for both audio and video tape JOUR 112 — Work Experience in Journalism | LATN 2 — Continuing Elementary Latin 4 Units Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 72 hours lecture Prerequisite: LATN 1 Advisory: Eligibility for READ 90 or eligibility for AMLA 33R Second semester of coursework for students with prior coursework in Latin. Daily practice in vocabulary, grammar, and reading. Explores Roman history and culture. LEADERSHIP LEAD 55 — Exploring Leadership 3 Units Degree Applicable, CSU 54 hours lecture Designed to introduce students to the fundamental elements of leadership. Explores leadership theories and models, values and beliefs. Develops a personal philosophy of leadership that includes an understanding of self, others and community. Prepares students for leadership roles in college and community settings. LEARNING ASSISTANCE SERVICES LERN 48 — Basic Math Skills Review 3 Units Not Degree Applicable (May be taken for Pass/No Pass only) 54 hours lecture 24 hours lab Essential math fundamentals: multiplication tables, adding, subtracting, multiplying and dividing whole numbers and fractions. Emphasis on math learning strategies such as organization and math anxiety. <td< td=""></td<> |
| be explored. JOUR 109 — Public Relations Internship 3 Units Degree Applicable (May be taken two times for credit) (May be taken for option of letter grade or Pass/No Pass) 225 hours lab Advisory: JOUR 108 or JOUR 8 Field work in pubic relations. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally | recommended that the hours per week be equally distributed throughout the semester. Students who repeat this course will improve skills through further instruction and practice. LATIN LATN 1 — Elementary Latin 4 Units Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 72 hours lecture Advisory: Eligibility for READ 90 or eligibility for AMLA 33R | Not Degree Applicable (May be taken for Pass/No Pass only) 54 hours lecture 24 hours lab Prerequisite: LERN 48 or passing score on current placement test Improves knowledge of basic math. Includes operations and applied problems in whole numbers, fractions, decimals, percentages, and proportions. Covers math study strategies such as overcoming math anxiety. LERN 61 — Skills Development Laboratory |
| distributed throughout the semester. Students who repeat this course will improve skills through further instruction and practice. | This course is designed for students with little or no prior experience in Latin. Emphasizes the ability to read basic Latin as it was written during the early, classical, and post-classical periods. Includes the study of vocabulary, grammar, Roman culture, and the history of the Latin language. | Not Degree Applicable (May be taken for Pass/No Pass only) 54 hours lab Offers individualized material in the following subjects: reading comprehension, reading acceleration, vocabulary, spelling, elementary math, algebra review, English grammar, study techniques (note-taking, test-preparation, test-taking). Students may register for one unit through the first half of the term. One unit requires a total expenditure of 48 hours in class. |

| LERN 62 — Skills Development Laboratory 2 Units Not Degree Applicable (May be taken two times for credit) (May be taken for Pass/No Pass only) 108 hours lab Offers individualized material in the following subjects: reading comprehension, reading acceleration, vocabulary, spelling, elementary math, algebra review, English grammar, study techniques (note-taking, test-preparation, test-taking). Students may register for two units through the first half of the term. Two units require a total expenditure of 96 hours in class. Students who repeat will achieve further improvement in the skills previously tested or work on the development of other skills. LERN 81 — Improving Writing Skills 3 Units Not Degree Applicable (May be taken for Pass/No Pass only) 54 hours lecture 24 hours lab Offers assistance to students who wish to improve prewriting, writing, editing, and revising skills. Provides instruction in content and structure | LITERATURE LIT 1 — Early American Literature 3 Units (CAN ENGL14) Degree Applicable, CSU, UC CAN ENGL SEQ C 54 hours lecture Prerequisite: ENGL 1A American literature of the Seventeenth, Eighteenth, and Nineteenth Centuries. Emphasizes writers who created an American literary identity and shaped America's cultural mythology. 3 Units LIT 2 — Modern American Literature 3 Units (CAN ENGL 16) Degree Applicable, CSU, UC CAN ENGL SEQ C 54 hours lecture Prerequisite: ENGL 1A Emphasizes characteristic 20th century concerns such as identity and cultural diversity, the American Dream, the effects of industrial and technological development, human isolation and alienation, and examines the impact of these concerns on American literary form and on America's cultural mythology. | LIT 10 — Survey of Shakespeare 3 Unite: Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture Prerequisite: ENGL 1A A survey of Shakespeare's histories, tragedies, comedies, and selected sonnets with their historical and literary context, emphasizing their relevance to contemporary culture and values. 3 Unite: LIT 11A — World Literature 3 Unite: S4 hours lecture 9 Unite: Prerequisite: ENGL 1A Works and ideas from classical Greece through the Renaissance, emphasizing those works which not only reflect qualities of universal greatness but also the thought and spirit of the ages in which they were written. Emphasizes how art, society, politics, philosophies and general culture are interrelated and reflected in the literature of these different eras. 111 11B — World Literature 3 Unite: |
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| of sentences, paragraphs, and essay; emphasizes development in writing through the integration of grammar and critical thinking. LIBRARY AND INSTRUCTIONAL MEDIA LIBR 1 — Information Resources and Research Methods 3 Units Not Degree Applicable, CSU, UC 54 hours lecture Advisory: Eligibility for ENGL 68 Research methods that provide lifelong information competency necessary for independent research and critical thinking. Activities include finding, evaluating and documenting information using traditional and electronic resources, including the Internet. | LIT 3 — Multicultural American Literature 3 Units Degree Applicable, CSU, UC 54 hours lecture Analyzes the representative contributions of three or four diverse groups to American literature and culture. Covering a wide spectrum of historical periods and literary genres, the course will focus on issues of ethnic identity, assimilation, acculturation, cultural pluralism, and family and gender roles in order to heighten awareness of diversity in America. Representative literature groups may include African American, Hispanic American, Native American, Asian American, Gay and Lesbian American, disability groups and religious groups. LIT 6A — Survey of English Literature 3 Units | 54 hours lecture Prerequisite: ENGL 1A An introductory survey course of European literature (17th to the 20th centuries) that explores the significant and representative literary works of the major authors of these periods. Emphasis on the aesthetic, social and philosophical values and ideas that influenced these authors and the development of 20th century thought. LIT 14 — Introduction to Modern Poetry (CAN ENGL20) 54 hours lecture Prerequisite: ENGL 1A |
| LIBR 1A — Introduction to Library Research1 Unit Not Degree Applicable, CSU(May be taken for Pass/No Pass only)18 hours lectureAdvisory: Eligibility for ENGL 68Basic research skills for lifelong information competency necessary for independent research and critical thinking. Topics include search strategies, citation, and use of library resources.LIBR 1B — Using Electronic Resources1 Unit Not Degree Applicable(May be taken for Pass/No Pass only)18 hours lecture Advisory: Eligibility for ENGL 68 Research skills using electronic resources for lifelong information competency. Topics include databases, electronic books, search strategies, citation, copyright, and plagiarism. | (CAN ENGL08) Degree Applicable, CSU, UC CAN ENGL SEQ B 54 hours lecture Prerequisite: ENGL 1A A chronological study of major works from Beowulf and the Anglo-Saxon period to the mid-18th century. LIT 6B — Survey of English Literature 3 Units (CAN ENGL 10) Degree Applicable, CSU, UC CAN ENGL SEQ B (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture Prerequisite: ENGL 1A A chronological study of major works from the Romantic Era through the Victorian and Modern periods to contemporary texts. | Examines the significant poetry of England and America in the 20th century, with the major emphasis on contemporary poems. LIT 15 — Introduction to Cinema 3 Unite Degree Applicable, CSU, UC 54 hours lecture Prerequisite: ENGL 1A Explores the broad range of human experience inherent in the study of film as art. Using a number of films drawn from various genres, examines film from historical, social, technological and aesthetic perspectives. |

| LIT 20 — African American Literature 3 Units Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture <i>Prerequisite: ENGL 1A</i> Surveys Eighteenth through Twenty-first Century writings of African Americans. Emphasizes the oral tradition, development of protest literature and major modern and contemporary writers such as Wright, Ellison, Baldwin, Walker, and Morrison. | LIT 40 — Children's Literature 3 Units Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture <i>Prerequisite: ENGL 1A</i> Designed to give the student a knowledge and an appreciation of children's books, both fiction and non-fiction, from around the world. Special emphasis is given to analysis and interpretation of thematic and literary elements, suitability for age group, quality of writing and | MFG 17 — 3-D CAD Mechanical Modeling 2 Units Degree Applicable 18 hours lecture 54 hours lab <i>Advisory: MFG 15</i> Development of three dimensional mechanical models using AutoCAD. Analysis and manipulation of mechanical solid models and industrial primitives as related to their interaction with Computer Aided Machines (CAM) and Computer Integrated Manufacturing (CIM) systems. |
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| LIT 25 — Contemporary Mexican American Literature 3 Units Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture <i>Prerequisite: ENGL 1A</i> Issues of contemporary Mexican-American literature, drama, and film. Includes discussion of the roles played by gender, religion, language, education, family, ethnic identity, and class. Also addresses application of literary tools such as symbolism, language, and theme. | illustration, award-winning books, and issues related to cultural patterns, bias and persuasiveness. LIT 46 — The Bible as Literature: Old Testament 3 Units Degree Applicable, CSU, UC 54 hours lecture <i>Prerequisite: ENGL 1A</i> Considers the Bible as a collection of literary texts and applies the principles of literary historical analysis to the Old Testament. | MFG 19 — Parametric Solid Modeling for Manufacturing 2 Units Degree Applicable 18 hours lecture 54 hours lab <i>Advisory: MFG 17</i> Development of feature-based solid modeling on a computer using current software used in industry. Transfer of solid model to a CAM system for CNC code production. Includes production of a manufactured part using CNC mill. |
| LIT 33 — Images of Women in Literature 3 Units Degree Applicable, CSU, UC 54 hours lecture Prerequisite: ENGL 1A Survey of selected pieces of literature, poetry, short stories and novels which reflect significant ideas and attitudes about women. The Women's Rights Movement will also be explored through an intensive examination of the changing images of women in society as portrayed by both male and female authors. Some contemporary critical material will be used. LIT 35 — Science Fiction and Fantasy Survey 3 Units Degree Applicable, CSU, UC | Prerequisite: ENGL 1A Considers the Bible as a collection of literary texts and applies the principles of literary and historical analysis to selected books of the Old Testament and the New Testament. MANUFACTURING TECHNOLOGY MFG 11 — Manufacturing Processes I 2 Units Degree Applicable, CSU 18 hours lecture 54 hours lab | MFG 25 — Advanced Parametric Solid Modeling for Manufacturing 2 Units Degree Applicable 18 hours lecture 54 hours lab Advisory: MFG 19 or MFG 27 taken previously Advanced instruction in concepts, practice, and development of feature- based solid modeling using software currently used in the manufacturing industry. Advanced features of solid modeling global variables, 3-D helical paths generation, surface cut, table-driven parts, and advanced sheet metal, and animation. MFG 27 — Autodesk Inventor 2 Units |
| (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture <i>Prerequisite: ENGL 1A</i> A chronological survey of science (or speculative) fiction and fantasy from earliest classics to the present day. Examines early attempts by Aristophanes, Swift, and the "fathers" - H.G. Wells and Verne. Will emphasize contemporary writers such as Bradbury, Heinlein, Vonnegut, Ellison, Sturgeon, Asimov, and Clarke. Definitions and quality standards will be evolved. | Manual and computerized manufacturing, manual lathes and mills, tool nomenclature and Computerized Numerical Control (CNC) operations. Operation of CNC machines. MFG 12 — Manufacturing Processes II 2 Units Degree Applicable, CSU 18 hours lecture 54 hours lab Advisory: MFG 11 The study of manufacturing equipment and manufacturing processes. Theory and practice in milling operations, tooling setup, metallury, heat | Degree Applicable 18 hours lecture 54 hours lab <i>Advisory: MFG 19</i> Advanced concepts, practice, and development of feature-based solid modeling using AutoDesk Inventor. Solid modeling parts creation using sketched, placed, and work features. Assembly techniques, working drawings, and the transfer of a solid model to a CAM system. MFG 38 — MasterCAM I 2 Units |
| LIT 36 — Introduction to Mythology 3 Units Degree Applicable, CSU, UC 54 hours lecture <i>Prerequisite: ENGL 1A</i> A survey of major myths, including creation, fertility, and hero myths. Explores theories and approaches to these archetypal stories and the ways that they reflect and shape culture. Emphasis is on classical myths, but myths from around the world may be included. | MFG 15 — AutoCAD 2D 2 Units Degree Applicable 18 hours lecture 54 hours lab Development of two dimensional AutoCAD mechanical screen drawings, as related to Computer Integrated Manufacturing (CIM), and Computer Aided Machines (CAM). Completed drawings will be translated into DXF and/or IGES files and then transferred to various CAD/CAM systems. | Degree Applicable, CSU 18 hours lecture 54 hours lab Use MasterCAM software to create wire-frame part geometry, add tool paths and create CNC code for CNC mills and CNC lathes. |

| MFG 38B — Advanced MasterCAM 2 Units Degree Applicable, CSU 18 hours lecture 54 hours lab Advisory: MFG 38 Use MasterCAM software to create wire-frame 3D/multi-axis part geometry, add tool paths, and create CNC code for CNC mills and CNC lathes. MFG 39 — SurfCAM I 2 Units Degree Applicable, CSU 18 hours lecture 54 hours lab 2 Units | MFG 74 — Manufacturing Technology Work Experience 1 Unit Not Degree Applicable (May be taken for Pass/No Pass only) 75 hours lab Prerequisite: Compliance with work experience regulations as designated in the College catalog. Completion of MFG 11, 12, 58, 70 and 85. Provides actual on-the-job experience in manufacturing at an approved work site, which is related to classroom instruction. A minimum of five hours per week of supervised work (60 non-paid clock hours or 75 paid clock hours per semester) is required for each one unit of credit. Students who repeat this course will improve skills through further instruction and practice. | MATH 51 — Elementary Algebra 4 Units Not Degree Applicable 72 hours lecture Prerequisite: MATH 50 or qualifying score on current department placement test Basic algebra, equivalent to first year high school algebra. Includes operations with signed numbers and algebraic expressions, linear equations and inequalities, polynomial operations and factoring, rational expressions and equations, Cartesian Coordinate System, slope/graphing/ equations of lines, systems of linear equations, ratio/proportion, formulas and variation, applications, radicals and exponents, quadratic equations. |
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| Advisory: MFG 11, MFG 85 SurfCAM software used to create part geometry from project drawings for two-axis milling and turning parts. Tool paths will be added and files completed and post-processed. Files will be downloaded to CNC machines. Students will be required to set up all cutting tools and machine the part. MFG 39B — SurfCAM II 2 Units | MFG 85 — Manual CNC Operation 2 Units Degree Applicable, CSU 18 hours lecture 54 hours lab Theory and practice in manually developing CNC programs. Methods of transmitting data to CNC machines and physical set-up and operation of CNC equipment. | MATH 51A — Elementary Algebra - First Half 3 Units Not Degree Applicable 54 hours lecture Prerequisite: MATH 50 or qualifying score on current department placement test Contains the first half of elementary algebra. Operations with signed numbers and algebraic expressions; linear equations and inequalities; |
| Mrd 398 — SuffCAM II Degree Applicable, CSU Degree Applicable, CSU 18 hours lecture 54 hours lab Advisory: MFG 39 Use SurfCAM software to create part geometry for three-axis milling and lathe parts from project drawings and CAD files. Tool paths will be added and the completed file will be post-processed and downloaded to CNC machine. Students will set up the required cutting tools and machine the part. MFG 58 — Blueprint Reading 2 Units Degree Applicable 36 hours lecture Advisory: MFG 70 | MFG 99 — Special Projects in Machining .5 to 2 Units Not Degree Applicable (May be taken four times for credit) 4.5 to 18 hours lecture 12 to 48 hours lab Provides students with the opportunity to develop skills in specific machining areas. Content of each course and the methods of study will depend on the specific machining skills selected. MATHEMATICS MATH 10 — Math Enhancement 0 Unit Not Degree Applicable (May be taken four times for credit) | polynomial operations and factoring; rational expressions and equations; ratios, proportions, formulas, and variation; applications. MATH 51B — Elementary Algebra - Second Half 3 Units Not Degree Applicable 54 hours lecture Prerequisite: MATH 51A Contains the second half of Elementary Algebra. Includes: Cartesian Coordinate System, slope/graphing/equations of lines, solving systems of linear equations, algebraic operations with radicals, solving equations with radicals, solving second degree equations using methods of completing the square and the quadratic formula. Students must complete both MATH 51A and MATH 51B to have taken the equivalent of Elementary Algebra (MATH 51). |
| Blueprint reading as a means of interpreting and visualizing drawings used in manufacturing. Includes the basic print form, title block, notes, materials, machining specifications, application of principles to CNC, welding, and sheet metal. MFG 70 — Technical Math - Manufacturing 2 Units Degree Applicable, CSU 36 hours lecture Applications of mathematical principles in manufacturing. Includes arithmetic calculations, measurement, use of formulas, geometry, and trigonometry. | 18 hours activity Linked with a corresponding math lecture section, this course provides hands-on activities and mathematical applications designed to enhance student success and abilities in the linked course. Supplemental learning activities such as computer projects, drill and practice, study skills development, group work and student presentations. MATH 50 — Pre-Algebra 3 Units Not Degree Applicable 54 hours lecture <i>Prerequisite: Credit in LERN 49 or qualifying score on current department placement test</i> Fundamental principles of mathematics designed to ease the transition from arithmetic to algebra. Concepts, computational skills, thinking skills and problem-solving skills are balanced to build proficiency and mastery. | MATH 61 — Plane Geometry 3 Units Degree Applicable 54 hours lecture Prerequisite: MATH 51 or MATH 51B or MATH 52 or qualifying score on current department placement test Points, lines, polygons and circles; their relationships to each other on plane surfaces; congruence, similarity and area. Introduction to inductive, deductive and indirect reasoning. The formal proof is introduced and practiced throughout the course. Stress is placed on accuracy of statement as a background for analytical and scientific reasoning. |

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| MATH 71 — Intermediate Algebra 5 Units Degree Applicable 90 hours lecture 90 hours lecture Prerequisite: MATH 51 or MATH 51B or qualifying score on current department placement test Reviews and extends concepts from elementary algebra, and introduces new content to prepare students for a variety of subsequent mathematics courses. Polynomial, rational, radical, exponential and logarithmic expressions are simplified, equations solved and functions graphed and studied; linear and nonlinear systems of equations and inequalities; conic sections; sequence, series and the binomial theorem. Application problems appear throughout the course. | MATH 96 — Strategies for Math Success 1 Unit Not Degree Applicable Not Degree Applicable (May be taken for Pass/No Pass only) 18 hours lecture Learning tools, plans and proper perspectives for math learning improvement. Use of natural intelligence strengths to simplify and optimize your mathematical educational experience. Overcome test anxiety and enhance testing abilities. Course is appropriate for all levels of mathematics students. MATH 99 — Special Projects in Mathematics 2 Units Degree Applicable, CSU (May be taken four times for credit) | MATH 110H — Elementary Statistics - Honors3 Units(CAN STAT02)Degree Applicable, CSU, UC54 hours lecturePrerequisite: (MATH 71 or MATH 71X or MATH 71B or qualifying passing score on current department placement test) and acceptance into the Honors ProgramEmphasis is placed on the understanding of statistical methods. Descriptive analysis of sample statistics, distribution of discrete and continuous random variables, estimation theory, tests of hypotheses, regression, correlation and analysis of variance. An honors course designed to provide an enriched experience. Students may not receive credit for both MATH 110 and MATH 110H. |
| MATH 71A — Intermediate Algebra - First Half 3 Units Degree Applicable 54 hours lecture Prerequisite: MATH 51 or MATH 51B or qualifying score on current department placement test. Algebra of functions, polynomials, and rational expressions; functions and their graphs; systems of equations with two or three variables; absolute value and compound inequalities. Covers some MATH 71 topics at a slower pace. A student must complete both MATH 71A and 71B to | In order to offer selected students recognition for their academic interests and ability and the opportunity to explore their disciplines to greater depth, the various departments from time to time offer Special Projects courses. The content of each course and the methods of study vary from semester to semester and depend on the particular project under consideration. Students who repeat this course will improve skills through further instruction and practice. | MATH 120 — Finite Mathematics3 Units(CAN MATH12)Degree Applicable, CSU, UC54 hours lecturePrerequisite:MATH 71 or MATH 71X or MATH 71B or qualifying score on current department placement test.Mathematics for business, social science and biological science majors.Topics include linear programming, matrix theory, probability, statistics, stochastic processes, Markov chains, and math of finance. |
| And a slower pace. A student must complete both MART 7 IA and 7 IB to have taken the equivalent of MATH 71, Intermediate Algebra. MATH 71B — Intermediate Algebra - Second Half 3 Units Degree Applicable 54 hours lecture Prerequisite: MATH 71A Quadratic equations and graphs; exponents, radicals and logarithms; conic sections. Covers remaining MATH 71 topics at a slower pace. A student must complete both MATH 71A AND MATH 71B to have taken the equivalent of MATH 71A, Intermediate Algebra. | MATH 100 — Survey of College Mathematics3 Units(CAN MATH02)Degree Applicable, CSU, UC54 hours lecturePrerequisite: (MATH 71 or MATH 71X or MATH 71B or qualifying score on current department placement test) and (MATH 61 or passing score on current geometry competency test)Introduction to mathematical methods and reasoning. Topics include: set theory, logic, counting methods, probability and statistics, with additional topics selected from numeration and mathematical systems, number theory, geometry, graph theory and mathematical modeling. | MATH 130 — College Algebra 4 Units (CAN MATH10) Degree Applicable, CSU, UC 72 hours lecture Prerequisite: MATH 71 or MATH 71B or qualifying score on current department placement test A college-level course in algebra. A study of real numbers and sets, algebraic functions and relations, radicals and exponents, linear and quadratic equalities and inequalities, exponential and logarithmic functions, systems of linear and quadratic equations, complex numbers, series, theory of equations, mathematical induction and binomial |
| MATH 71X — Practical Intermediate Algebra 5 Units Degree Applicable 90 hours lecture 90 hours lecture Prerequisite: Math 51 or Math 51B or qualifying score on current department placement test. Intermediate Algebra for the non-calculus path. Recommended for Humanities, Social Sciences, and Applied Sciences. Recommended prerequisite for Math 100, Math 110, and Math 120. Polynomial, rational, radical, exponential and logarithmic expressions are simplified, equations solved, and real-world phenomena are modeled using least-squares methods, functions graphed and analyzed; linear and nonlinear systems of equations and inequalities; sequences, series, and probabilities; data gathering instruments are used to sample data for curve fitting. | MATH 110 — Elementary Statistics 3 Units (CAN STAT02) Degree Applicable, CSU, UC 54 hours lecture Prerequisite: MATH 71 or MATH 71X or MATH 71B or qualifying score on current department placement test Emphasis is placed on the understanding of statistical methods. Descriptive analysis of sample statistics, distribution of discrete and continuous random variables, estimation theory, tests of hypotheses, regression, correlation and analysis of variance. | formula. MATH 140 — Calculus for Business 4 Units (CAN MATH34) Degree Applicable, CSU, UC 72 hours lecture Prerequisite: MATH 130 or MATH 160 or qualifying score on current department placement test. Calculus for business, social science, and non-science majors. Algebraic, logarithmic, and exponential functions; limits; differentiation with applications; various techniques of integration with applications; differential equations; multi variable calculus. Credit not given to persons with credit in MATH 180 or equivalent. |

COURSE DESCRIPTIONS

| MATH 150 — Trigonometry3 Units(CAN MATH08)Degree Applicable, CSU54 hours lecturePrerequisite: MATH 71 or 71B or qualifying score on current department placement test AND Math 61 or passing score on current geometry competency test.Trigonometry functions and inverse trigonometric functions and the graphical representations of these functions; solutions to right and oblique triangles with laws of sines and cosines; vectors; solutions to trigonometric equations; identities; polar coordinates; complex numbers and DeMoivre's Theorem.MATH 160 — Precalculus Mathematics4 Units (CAN MATH16)Prerequisite: MATH 150, or qualifying score on current department placement test.Prepares students for the calculus sequence. Real-valued functions, including algebraic, trigonometric, exponential, and logarithmic functions. Also includes proofs, inequalities, introductory analytical geometry, series, sequences, and vectors.MATH 180 — Calculus and Analytic Geometry4 Units (CAN MATH18)CAN MATH 180 — Calculus and Analytic Geometry4 Units (CAN MATH 180 metric)CAN MATH 160 or qualifying score on current department placement test.Prerequisite: MATH 160 or qualifying score on current department placement testFunctions, curve sketching, limits, the derivative, rules for differentiation of algebraic and trigonometric functions, applications of the derivative. Indefinite and definite integrals, numerical integration, and calculus with exponential, logarithmic, and other transcendental functions.MATH 181 — Calculus and Analytic Geometry5 Units (CAN MATH 20)CAN MATH 20Degree Applicable, CSU, UC CAN MATH 20CAN MATH 20Degree A | MATH 245 — A Transition to Advanced Mathematics 3 Units Degree Applicable, CSU 54 hours lecture Prerequisite: MATH 181 A transition to the rigors of upper-division mathematics courses. Basic set theory and logic, relations, functions, mathematical induction, the well-ordering principle, countable and uncountable sets, the Schroder-Bernstein Theorem, the axiom of choice, Zorn's Lemma, the Heine-Borel Theorem, the Bolzano-Weierstrass Theorem. Special emphasis on how to present and understand mathematical proofs. MATH 280 — Calculus and Analytic Geometry 4 Units (CAN MATH 22) Degree Applicable, CSU, UC CAN MATH 5EQ C 72 hours lecture Prerequisite: MATH 181 Analysis of vector-valued functions of several variables, partial derivatives, differentials, the chain rule, directional derivatives and the gradient. Extrema of functions of several variables with applications. Double and triple integrals in various coordinate systems with applications. Vector fields, line integrals, work, independence of path in conservative fields. Green's Theorem, surface integrals, flux, divergence and curl, Stokes' Theorem, the Divergence Theorem. MATH 285 — Linear Algebra and Differential Equations 5 Units (CAN MATH24) Degree Applicable, CSU, UC 90 hours lecture Prerequisite: MATH 280 First order ordinary differential equations, including separable, linear, homogeneous of degree zero, Bernoulli and exact with applications and numerical methods. Solutions to higher order differential equati | MENTAL HEALTH/PSYCHIATRIC TECHNICIAN MENT 40 — Introduction to Interviewing and Counseling 3 Unit: Degree Applicable 54 hours lecture Provides a basic overview of the helping processes. Stresses application of counseling theories, helping skills, and consultation theories to allow exploration of self as a helper and learn facilitating skills to bring about change. Emphasis on establishing rapport, obtaining information and developing a supportive relationship in a variety of mental health settings. Students may not receive credit for both MENT 40 and PSYC 40. MENT 56 — Medical-Surgical Nursing for Psychiatric Technicians 9 Units: Psychiatric Technicians Degree Applicable 162 hours lecture Prerequisite: Admission to the Psychiatric Technician Program Corequisite: MENT 56L Polistic approach to assessment and intervention in the care of the medical-surgical patient. Examines physiological modes of rest and exercise, regulation, circulation, ventilation and the sensory system; medical-surgical nursing; care of the dying patient, cardiovascular problems; calculations of drug dosage and administration of oral and topical medications; study of anatomy and physiology of the human body. MENT 56L — Clinical Experience 4 Units: Degree Applicable (May be taken for Pass/No Pass only) 216 hours lab Development of medical-surgical nursing skills. Application and assessment, intervention, evaluation of nursing treatment in the physiological modes of rest and exercise, regulation, nutrition, elimination, application of nursing skills for those with medical-surgical problems and special needs. Calculation and adminis |
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| applications. MATH 210 — Concepts of Elementary Mathematics 3 Units | MEDI 90 — Medical Terminology 3 Units Degree Applicable, CSU | MENT 58D — Advanced Medical-Surgical Nursing 4 Units and Pharmacology for PsychiatricTechnicians Degree Applicable 72 hours lecture <i>Prerequisite: MENT 56, MENT 56L</i> <i>Corequisite: MENT 58L</i> Examines disease processes affecting body systems, etiology, required nursing care; study of drugs, standards, administration; dose calculations. |

| MENT 58L — Advanced Medical-Surgical Nursing 1.5 Units | MENT 73L — Psychiatric Nursing for 5 Units | MICROBIOLOGY |
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| for Psychiatric Technicians Clinical Degree Applicable (May be taken for Pass/No Pass only) 90 hours lab Application of nursing skills to patients with medical/surgical disorders. Administration of medications. MENT 70 — Introduction to Psychiatric Technology 1.5 Units | Psychiatric Technicians Clinical Degree Applicable (May be taken for Pass/No Pass only) 288 hours lab <i>Corequisite: MENT 73T</i> Clinical instruction in the treatment of mental disabilities and substance abuse. | MICR 1 — Principles of Microbiology 5 Units (CAN BIOL14) Degree Applicable, CSU, UC 54 hours lecture 108 hours lab Prerequisite: CHEM 10 or CHEM 40. One year of college chemistry is recommended for all transfer majors. CHEM 50/51 sequence is preferred for biology and most pre-health professional majors Fundamental concents of microbiology with emphasis on bacteria |
| Degree Applicable 27 hours lecture <i>Prerequisite: Admission to Psychiatric Technician Program</i> <i>Corequisite: MENT 70L</i> Role and function of the Psychiatric Technician; mental health theories of personality development, self-concept, role function, and interdependence; developmental disabilities theories of sensorimotor techniques, behavior modification techniques. | MENT 73T — Psychiatric Nursing for Psychiatric Technicians 6 Units Degree Applicable 108 hours lecture 108 hours lecture Corequisite: MENT 73L Theoretical instruction in the assessment and treatment of the mentally disabled, use of common medication, therapeutic communication, assertive language and leadership skills appropriate for the practicing Psychiatric Technician. | Fundamental concepts of microbiology with emphasis on bacteria. Survey of microbial classification, morphology, physiology and genetics; beneficial and pathological aspects; growth and control of microbes; viorlogy, immunology, and host-microbe interactions. Important infectious diseases of humans are surveyed. Laboratory exercises examine microbial morphology, physiology and genetics, as well as environmental influences of microorganisms. Laboratory techniques include culturing, examining, and identifying microorganisms. |
| MENT 70L — Introduction to Psychiatric Technology Clinical Technicians 2 Units Degree Applicable (May be taken for Pass/No Pass only) 108 hours lab Corequisite: MENT 70 The clinical experience introduces the student to facilities within the community which serve the mental health field including both the mentally disordered and developmentally disabled. | MENT 82 — Work Experience in Mental Health 2 UnitsTechnology Degree Applicable (May be taken for Pass/No Pass only) 150 hours lab Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog, MENT 72, MENT 73T Provides majors with actual on-the-job experience in an approved work station related to classroom instruction. A minimum of 60 non-paid or | MICR 22 — Microbiology 4 Units Degree Applicable, CSU, UC 54 hours lecture 54 hours lab <i>Prerequisite: CHEM 10 or CHEM 40</i> Fundamental concepts of microbiology; viruses, bacteria, fungi, protozoa and parasitic worms. Covers microbial classification, physiology and genetics; host-parasite interaction; control of disease-causing agents; public health microbiology; immune response and immune disorders. |
| MENT 72 — Nursing Care of the Developmentally 7 Units Disabled Person Degree Applicable 126 hours lecture Prerequisite: MENT 56, MENT 70 | 75 paid clock hours per semester is required for each unit of credit. It is recommended that the hour per week be equally distributed throughout the semester. Veterans may not use work experience courses as credit towards veterans benefits. | Important diseases of humans and other animals are surveyed. Laboratory exercises include experiments and observation on the morphology, physiology, and control of microorganisms. MUSIC MUS 1 — Concert Music 1 Unit |
| Corequisite: MENT 72L Etiology of mental retardation; develops the knowledge, skills, and attitudes necessary to safely teach and train the developmentally disabled person. Techniques of behavior modification and sensory-motor training are used, as well as the teaching of self-help skills. Examines normal development from infancy to the aged. MENT 72L Nursing Care of the Developmentally Disabled Person - Clinical Degree Applicable (May be taken for Pass/No Pass only) | METO 3 — Weather and the Atmospheric Environment 3 Units Degree Applicable, CSU, UC 54 hours lecture An introduction to the atmosphere. Processes that influence weather and climate: seasonality, structure of the atmosphere, atmospheric stability, severe weather (hurricanes, tornadoes, thunderstorms,) climate change, and the causes and effects of air pollution. Students will use a variety of weather instruments, and the course may include either field work or field trips. | MUS 1 — Concert Music 1 Unit Degree Applicable, CSU (May be taken four times for credit) (May be taken for Pass/No Pass only) 18 hours lecture A concert experience in listening to recitals, media presentations, and musical demonstrations and lectures given by faculty, artists, and students. Attendance at and reports on additional live concerts may be required. Students who repeat this course will improve skills through further instruction and practice. Course open to all students. |
| (May be taken for Pass/No Pass only) 288 hours lab <i>Corequisite: MENT 72</i> Application of skills needed to teach, train, and provide care for the developmentally disabled person. Calculation and administration of medication. | METO 3L — Weather and Atmospheric 1 Unit Environment Laboratory Degree Applicable, CSU, UC 54 hours lab <i>Corequisite: METO 3 (may have been taken previously)</i> Laboratory topics paralleling the course content of METO 3. | MUS 2 — Music Theory 3 Units Degree Applicable, CSU, UC 54 hours lecture Corequisite: MUS 5A 54 hours in Western tonal music. Explores the concept of tonality, the properties of melody, basic chord grammar and the mechanisms by which music projects meaning. Includes a comprehensive review of music fundamentals, including music notation, meter, scales, intervals and chord construction. Required for music majors. |

COURSE DESCRIPTIONS

| MUS 3A — Harmony 3 Units Degree Applicable, CSU, UC 54 hours lecture Prerequisite: MUS 2, MUS 5A Corequisite: MUS 5B An examination of the harmonic style of Western tonal music from the common practice period. Topics include elementary chord syntax, the principles of voice leading, simple figured bass realization, soprano harmonization, basic non-chord tones, seventh chords, basic modulation techniques, period forms and binaries. Students will compose original music in the harmonic and melodic style of Classical models. MUS 3B — Harmony 3 Units Degree Applicable, CSU, UC 54 hours lecture Prerequisite: MUS 6A Degree Applicable, CSU, UC Corequisite: MUS 6A Degree Applicable, cSU, UC S4 hours lecture Prerequisite: MUS 6A Corequisite: MUS 6A Corequisite: MUS 6A Corequisite: MUS 3B, MUS 6A Corequisite of Species, 18th century counterpoint and imitative contrapuntal forms. Students will write analysis papers and compose original music in the harmonic and melodic style of Baroque models. MUS 3C — Harmony 3 Units Degree Applicable, CSU, UC 54 hours lecture Prerequisite: MUS 3B, MUS 6A Corequisite: MUS 3B, MUS 6A Corequisite: MUS 3B, MUS 6A Corequisite: MUS 3B, MUS 6A Corequisite: MUS 3B, MUS 6A Corequisite: MUS 3B, MUS 6A | MUS 5B — Musicianship 1 Unit Degree Applicable, CSU, UC 18 hours lab Degree Applicable, CSU, UC 18 hours lab Prerequisite: MUS 3A Provides further training in sight singing, aural perception and dictation, including soprano-bass dictation of diatonic Bach-style chorales. Students will be aided by the use of a computer lab, and documented lab time outside of class will be required for successful course completion. MUS 6A — Musicianship - Advanced 2 Units Degree Applicable, CSU, UC 36 hours lecture 18 hours lab Prerequisite: MUS 3A Corequisite: MUS 3A Corequisite: MUS 3A Degree Applicable, CSU, UC 36 hours lecture 18 hours lab Prerequisite: MUS 3A Corequisite: MUS 3A Corequisite: MUS 3A Corequisite: MUS 3A Advanced training in sight singing, aural perception and dictation, including soprano-bass dictation of modulating Bach-style chorales and imitative counterpoint. Students will be aided by the use of a computer lab, and documented lab time outside of class will be required for successful course completion. MUS 6B — Musicianship - Advanced 2 Units Degree Applicable, CSU, UC 36 hours lecture 18 hours lab Prerequisite: MUS 3B, MUS 6A Corequisite: MUS 3B, MUS 6A Corequisite: MUS 3B, MUS 6A Corequisite: MUS 3B | Degree Applicable, CSU (May be taken for Pass/No Pass only) 36 hours lecture 36 hours lab Advisory: Eligibility for ENGL 68 A survey of the uses of computers and electronic devices to capture, create, modify and disseminate music. Provides an introduction to the principles of musical acoustics, sound recording, and digital audio. Computer software for MIDI sequencing, sound synthesis, digital sampling, editing, music notation and composition will be demonstrated and practiced in class. Assignments will include the creation of original music. MUS 11A — Music Literature Survey 3 Units Degree Applicable, CSU, UC 54 hours lecture A survey of western music from the Medieval period through the 18th century including examples of music from several non-western cultures. Lectures are augmented by recordings and other support media pertinent to the culture/period being studied. Attending at least one live concert is required. MUS 11B — Music Literature Survey 3 Units Degree Applicable, CSU, UC |
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| MUS 13H — Music Appreciation - Honors 3 Units Degree Applicable, CSU, UC 54 hours lecture <i>Prerequisite: Acceptance into the Honors Program</i> An introductory study of music from a variety of cultures including a survey of western music from the Medieval period through the 21st century. Lectures are augmented by recordings and other support media pertinent to the culture/period being studied. Attending at least one live concert is required. An honors course designed to provide an enriched experience. Students may not receive credit for both MUS 13 | MUS 17A — Elementary Class Piano 1 Unit (CAN MUS22) Degree Applicable, CSU, UC (May be taken four times for credit) 18 hours lecture 18 hours lab Reading and performance of piano literature with emphasis on scales, chord progressions, and sight reading. Students who repeat this course will improve skills through further instruction and practice. No prior musical experience is required. | MUS 20B — Intermediate Class Voice 1 Unit Degree Applicable, CSU, UC (May be taken four times for credit) 18 hours lecture 18 hours lab Advisory: MUS 20A Group and individual instruction toward mastering the basic skills required for a solid singing technique for popular, theatrical, and classical music. Studies of musicianship will concentrate on individual vocal problems. Students who repeat this course will improve skills |
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| and MUS 13H. MUS 14A — World Music 3 Units Degree Applicable, CSU, UC 54 hours lecture Advisory: Eligibility for ENGL 68 Examines the dominant musical cultures of the world within Africa, the Americas, and Asia and compares these to Western popular music. Identifies vocal and instrumental genres within selected cultures and examines the harmonic, melodic, and rhythmic characteristics of each style. Lectures, films, recordings, and media presentations will assist the student in exploring the ways in which music is used around the world for aesthetic, social, and spiritual purposes. | MUS 17B — Intermediate Class Piano 1 Unit (CAN MUS24) Degree Applicable, CSU, UC (May be taken four times for credit) 18 hours lecture 18 hours lab Advisory: MUS 17A or professor approval Reading and performances of piano literature with further emphasis on scales, chord progressions, and sight reading. Students who repeat this course will improve skills through further instruction and practice. MUS 18 — Advanced Class Piano 1 Unit Degree Applicable, CSU, UC (May be taken four times for credit) | through further instruction and practice. MUS 21 — Advanced Class Voice 1 Unit Degree Applicable, CSU, UC (May be taken four times for credit) 18 hours lecture 18 hours lab Advisory: MUS 20B Group and individual study of the style, techniques, and interpretation of art songs and songs from operas and musicals. Emphasis will be placed on diction and pronunciation of foreign languages. Students who repeat this course will improve skills through further instruction and practice. |
| MUS 14B — American Folk Music 3 Units Degree Applicable, CSU 54 hours lecture The study of American folk music by both region and period. Instruction will include lecture, reading, and listening assignments, and various audio-visual materials. No previous musical experience required. MUS 15 — Rock Music History and Appreciation 3 Units Degree Applicable, CSU, UC | 18 hours lecture 18 hours lab Advisory: MUS 17B The style, technique and interpretation of piano music from the 17th century to the present is studied collectively and individually. Sight reading, improvisation and ensemble playing will be emphasized. Students who repeat this course will improve skills through further instruction and practice. Recommended for music majors. MUS 19 — Class Organ 1 Unit | MUS 22 — Conducting 1 Unit Degree Applicable, CSU (May be taken four times for credit) 18 hours lecture 18 hours lab Teaches and practices basic beat patterns, score reading, and rehearsal techniques. Offers an opportunity to learn and apply the techniques needed for group direction and leadership. Students who repeat this |
| (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture Historical survey of rock music from its beginnings in the early 50's to the present. Rhythm and Blues, Rockabilly, the British Invasion, Motown, Soul, Folk Rock, Hard Rock, Punk, Heavy Metal, and various Alternative Rock styles will discussed. Personalities and musical styles will be related to the sociology of the time period being studied. MUS 16 — Individual Instruction 3 Units (CAN MUS14) Degree Applicable, CSU, UC | Degree Applicable, CSU, UC (May be taken four times for credit) 18 hours lecture 18 hours lab <i>Advisory: MUS 17A and MUS 17B or equivalent</i> Group and individual instruction in registration, manual/pedal technique, and interpretation of standard organ literature. Students who repeat this course will improve skills through further instruction and practice. | course will improve skills through further instruction and practice. MUS 23A — Elementary Class Guitar 1 Unit Degree Applicable, CSU, UC (May be taken four times for credit) 18 hours lecture 18 hours lab Acoustic guitar playing, note reading, strumming, finger picking and improvisation. Students must furnish their own guitars. Students who repeat this course will improve skills through further instruction and practice. |
| (May be taken four times for credit) 18 hours lecture 108 hours lab <i>Prerequisite: Admission by audition</i> A course in applied music for students also enrolled in a major performing group. Instruction includes a private one-half hour lesson plus five and one-half hours of laboratory practice per week. Individual problems of performance techniques, interpretation, and repertoire are included. Students who repeat this course will improve skills through further instruction and practice. | MUS 20A — Elementary Class Voice 1 Unit Degree Applicable, CSU, UC (May be taken four times for credit) 18 hours lecture 18 hours lab Group instruction on the basics of singing with special emphasis on breath control and its importance in the singing of the musical line. English and American songs will be studied. Open to non-music majors and recommended for all music majors. Students who repeat this course will improve skills through further instruction and practice. | MUS 23B — Intermediate Class Guitar 1 Unit Degree Applicable, CSU, UC (May be taken four times for credit) 18 hours lecture 18 hours lab <i>Advisory: MUS 23A</i> Techniques for reading and playing music arranged for the solo guitar. Students must furnish their own acoustic guitar. Students who repeat this course will improve skills through further instruction and practice. |

| MUS 24 — Advanced Class Guitar 1 Unit Degree Applicable, CSU, UC May be taken four times for credit) 18 hours lab Advisory: MUS 23B The style, technique, and interpretation of guitar music of the 18th and 19th centuries will be studied and performed. Sight reading and ensemble playing will be emphasized. Students must furnish their own acoustic guitars. Students who repeat this course will improve skills through further instruction and practice. MUS 25A — Jazz Improvisation 1 Unit Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 18 hours lecture 18 hours lecture 18 hours lecture 10 hours lecture 18 hours lab Advisory: MUS 2 or MUS 7 and/or audition by professor Styles and techniques of improvisation. Each student must furnish his/her own instrument and be able to perform individually and with the class. Students who repeat this course will improve skills through further instruction and practice. MUS 25B — Jazz Improvisation 1 Unit Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken four times for credit) (May be taken four times for credit) (May be taken four times for credit) Musice (May be taken four times for credit | MUS 29 — Choral Workshop 1 Unit Degree Applicable, CSU, UC (May be taken four times for credit) 54 hours lab Open to all students without an audition. Choral music of all genres with an emphasis on strengthening choral skills, including sight singing, tone, blend, balance and good vocal technique. Covers choral tone of the Renaissance to correct use of the microphone when singing pop or vocal jazz. Several guest conductors from local universities will provide clinics. Students who repeat this course will improve skills through further instruction and practice. MUS 30 — Collegiate Chorale 1 Unit Degree Applicable, CSU, UC (May be taken four times for credit) 54 hours lab A non-auditioned mixed choral ensemble open to all students. A variety of mixed choral repertoire will be studied and performed, from music of the Renaissance to contemporary Pop, Broadway, and Vocal Jazz. Rehearsal time will also be devoted to vocal development and improving music theory skills. Students who repeat this course will improve skills through further instruction and practice. MUS 31 — Concert Choir 2 Units Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken four times for credit) (May be taken four times for credit) (May be taken four t | MUS 34 — Womens Vocal Ensemble 2 Units Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 108 hours lab Prerequisite: Admission by audition during the first week of class This women's group will study and perform selected classical works, folk songs, spirituals, and popular compositions. Attendance is required at all public performances. Students who repeat this this course will improve skills through further instruction and practice. 2 Units MUS 36 — Concert and Community Band 2 Units Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 108 hours lab Advisory: Previous band experience Study and performance of standard and new band literature. Experience will be given to capable student directors, soloists, arrangers and composers. Attendance is required at all public performances. Students who repeat this course will improve skills through further instruction and practice. MUS 38 — Ensemble 1 Unit Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken four option of letter grade or Pass/No Pass |
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| Degree Applicable, CSU, UC (May be taken four times for credit) 54 hours lab <i>Prerequisite: Admission by audition</i> Study and performance of standard and contemporary music for athletic and school spirit functions. Attendance is required at assigned public performances. Students who repeat this course will improve skills through further instruction and practice. MUS 44 — Vocal Jazz Ensemble Begree Applicable, CSU, UC (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 162 hours lab <i>Prerequisite: Admission by audition</i> | Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken for Pass/No Pass only) 162 hours lab <i>Prerequisite: Admission by audition</i> An instrumental ensemble dealing with all types of popular music and jazz. Preference will be given to performers playing more than one instrument. Students who repeat this course will improve skills through further instruction and practice. MUS 48 — Men's Vocal Ensemble 2 Units Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken for Pass/No Pass only) 108 hours lab | MUS 99 — Special Projects in Music 1 to 3 Units Degree Applicable (May be taken four times for credit) 54 to 162 hours lab Offered to selected students in recognition of academic interests and abilities to give them the opportunity to explore these interests and abilities in greater depth. The content of each course and the methods of study vary from semester to semester and depend on the particular project under consideration. Students must have an instructor's approval before enrolling in this course. Students repeating this course will make individual contracts of a more advanced nature with the instructor to ensure that proficiencies are enhanced. Projects must be approved in advance. NURSING |
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| A vocal ensemble appropriate for beginning and intermediate jazz singers. This group will perform vocal jazz charts accompanied by a rhythm section, as well as a cappella. Basics of singing jazz, vocal improvisation, group singing techniques, and microphone techniques. Ensemble will perform locally and/or at vocal jazz festivals. Attendance at performances and competitions is required. Students who repeat this course will improve skills through further instruction and practice. MUS 45 — Chamber Singers 3 Units Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 162 hours lab <i>Prerequisite: Admission by audition</i> | Prerequisite: Admission by audition the first week of class The study and performance of selected classical works, folk songs, spirituals, and popular compositions. Attendance is required at all public performances. Students who repeat this course will improve skills through further instruction and practice. MUS 49 — Wind Ensemble 3 Units Degree Applicable, CSU, UC (May be taken four times for credit) 162 hours lab Prerequisite: Admission by audition The premier classical wind and percussion ensemble at the College. Students must have previous instrumental training and demonstrate proficiency. Requires public performances. Concerts emphasize works of | NURS 1A — The Nursing Process I 4.75 Units Degree Applicable, CSU 45 hours lecture 126 hours lab Prerequisite: Admission to Nursing Program; ANAT 35 or equivalent and ANAT 36 or equivalent, or ANAT 10A or equivalent and ANAT 10B or equivalent, and MICR 22 or equivalent, or MICR 1 or equivalent, and ENGL 1A or equivalent Corequisite: NURS 2 Principles of nursing as related to a culturally diverse population, adulthood through senescence. Theory and application of the Nursing Process. Including meaning of illness, promoting health patterns, hygiene, safety, asepsis, medication administration, elimination, communication. The Betty Neuman Model serves as the conceptual formerwork |
| repertoire. A wide variety of choral literature is performed publicly several times each semester and a performance tour occurs each Spring semester. Emphasizes advanced musical skills and vocal techniques while focusing on the importance of blend, balance, and tone. Auditions for this course are held each May. Students who repeat this course will improve skills through further instruction and practice. MUS 46 — Mt. SAC Singers 2 Units Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken for Pass/No Pass only) 36 hours lecture 36 hours lab <i>Prerequisite: Admission by audition</i> The "Mt. SAC Singers" is a select choral ensemble, specializing in choreographed popular and musical theater literature. Includes a wide variety of music performed publicly several times every semester. Emphasizes advanced musical skills, vocal technique, choreography and | major composers, original compositions, and guest artists. Experience may be given to capable students as directors, soloists, arrangers, and composers. Students who repeat this course will improve skills through further instruction and practice. MUS 50 — Jazz Improvisation and Performance Choir 3 Units Degree Applicable, CSU (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 162 hours lab An advanced vocal jazz choir. This choir will perform advanced vocal jazz arrangements and students will study the historical, theoretical and technical aspects of both instrumental and vocal jazz. Advanced solo singing techniques and scat singing will be rehearsed and the choir will perform at least one concert each semester at Mt. SAC along with attending and performing at a variety of musical venues. This class will have the opportunity to work with guest artists and make CD recordings. Attendance is required at assigned public performances. Students who repeat this course will improve skills through further instruction and practice. Admission by audition. | framework. NURS 1B — The Nursing Process II 4.75 Units Degree Applicable, CSU 45 hours lecture 126 hours lab Prerequisite: NURS 1A or Advanced Placement Corequisite: NURS 2 Principles of nursing as related to culturally diverse population, adulthood through senescence. Theory and application of the Nursing Process including wound care, legal/ethical aspects, comfort, fluid and electrolytes, spirituality, and nursing trends. The Betty Neuman Model serves as the conceptual framework. NURS 2 — Pharmacology 2 Units Degree Applicable, CSU 36 hours lecture Prerequisite: Admission to Nursing Program and eligibility for MATH 51 Corequisite: NURS 1A The ethical and legal responsibilities in the administration of medications. Application of mathematical concepts, the Nursing Process, and drug therapy to the administration of fluids and medications. |

| NURS 3 — Medical-Surgical Nursing: 3.5 Units | NURS 8 — Medical-Surgical Nursing: Circulation 5 Units | NURS 70 — Role Transition 3 Units |
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| Nors 5 — Medical-Surgical Nursing: 5.5 Units Locomotion/Sensation/ Integument/Oncolog Degree Applicable, CSU 30 hours lecture 99 hours lab Prerequisite: NURS 1B and NURS 2 or Advanced Placement Concepts of nursing assessment and intervention with application to clients with integumentary and immunologic disorders as well as dysfunctions of sensation and locomotion. An introduction to oncology nursing is included. The Betty Neuman Model serves as the conceptual framework. | and Oxygenation Degree Applicable, CSU 45 hours lecture 144 hours lab <i>Prerequisite: NURS 7 or Advanced Placement</i> <i>Corequisite: NURS 9</i> Concepts for nursing assessment and intervention with application to clients with cardiovascular and pulmonary problems. The Betty Neuman Model serves as the conceptual framework. | Works 70 — Kote transition Degree Applicable (May be taken for Pass/No Pass only) Degree Applicable 36 hours lecture So this 54 hours lab Prerequisite: Advanced Placement; PT (Psychiatric Technician) or LVN (Licensed Vocational Nurse); ANAT 35 or equivalent and ANAT 36 or equivalent, or ANAT 10A or equivalent and ANAT 10B or equivalent, and MICR 22 or equivalent, or MICR 1 or equivalent, and ENGL 1A or equivalent, and PSYC 1A or equivalent, and CHLD 10 or equivalent or PSYC 14 or equivalent |
| NURS 4 — Maternity Nursing 3 Units Degree Applicable, CSU 27 hours lecture 81 hours lab Prerequisite: NURS 3 or Advanced Placement Concepts of nursing assessment and intervention with application to maternity and newborn clients. The Betty Neuman Model serves as the conceptual framework. | NURS 9 — Leadership in Nursing 1 Unit Degree Applicable, CSU 18 hours lecture Prerequisite: NURS 7 or Advanced Placement Corequisite: NURS 8 Assists the second year student to develop cognitive and leadership skills for first level management positions. Includes exploration and analysis of current trends and issues in nursing. | For the LVN (Licensed Vocational Nurse), PT (Psychiatric Technician) or advanced placement student transitioning into the role of the RN (Registered Nurse). Theory and application of concepts of physical assessment, the relationship of homeostatic mechanisms to fluid and electrolyte balance/imbalance utilizing the Betty Neuman Model as the conceptual framework. NURS 99 — Special Projects in Nursing 2 Units |
| NURS 5 — Psychiatric Nursing 3 Units Degree Applicable, CSU 27 hours lecture 81 hours lab Prerequisite: NURS 4 or Advanced Placement and PSYC 1A Concepts of nursing assessment and intervention with application to clients with psychiatric disorders in a mental health setting. The Betty Neuman Model serves as the conceptual framework. | NURS 10 — Medical-Surgical 4 Units Nursing: Integration/Regulation Degree Applicable, CSU 45 hours lecture 96 hours lab <i>Prerequisite: NURS 8, NURS 9 or Advanced Placement</i> Concepts of nursing assessment and intervention with application to clients with neurological and endocrine disorders. The Betty Neuman Model serves as the conceptual framework. | Not Degree Applicable (May be taken four times for credit) (May be taken for Pass/No Pass only) 108 hours lab <i>Prerequisite: Placement in Nursing Program</i> Provides students the opportunity to explore a discipline in greater depth. Content of each course and the methods of study will depend on the particular project. Instructor's authorization before enrolling is required. |
| NURS 6 — Pediatric Nursing 3 Units Degree Applicable, CSU 27 hours lecture 81 hours lab Prerequisite: NURS 5 or Advanced Placement and CHLD 10 or PSYC 14 Concepts of nursing assessment and intervention with application to pediatric clients. The Betty Neuman Model serves as the conceptual framework. NURS 7 — Medical-Surgical Nursing: 7 Units | NURS 11 — Preceptorship in Nursing 2 Units Degree Applicable, CSU (May be taken for Pass/No Pass only) 112 hours lab Advisory: NURS 10 or Advanced Placement Students participate as a pre-licensed health team member immediately prior to graduation. Students assume responsibility for a group of clients under direct supervision of a qualified registered nurse. NURS 20 — Nursing Work Experience Program 1 to 4 Units | NUTRITION AND FOOD NF 10 — Nutrition for Personal Health and Wellness 3 Units Degree Applicable, CSU 54 hours lecture Prerequisite: Eligibility for ENGL 68 Basic principles of human nutrition and their relationship to optimum health. Emphasizes nutrient needs, food selection and weight control during the various life stages from prenatal to adult. Student food intake is evaluated in several ways including computer diet analysis. This course is intended for non-health science majors. |
| Nutrition/Elimination/Surgical Asepsis Degree Applicable, CSU 60 hours lecture 198 hours lab <i>Prerequisite: NURS 6 or Advanced Placement</i> Concepts of nursing assessment and intervention with application to clients with problems of nutrition, elimination, and the reproductive systems. Clients in pre-, intra-, and post-operative settings are included. The Betty Neuman Model serves as the conceptual framework. | Not Degree Applicable (May be taken four times for credit) (May be taken for Pass/No Pass only) 75 to 300 hours lab <i>Prerequisite: Compliance with Work Experience regulations as designated</i> <i>in the College Catalog. Current satisfactory status in the Nursing</i> <i>Program</i> On-the-job experience for nursing students in an approved work setting related to classroom instruction. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. Students who repeat this course will improve skills through further instruction and practice. | NF 20 — Principles of Food with Lab 3 Units (CAN FCS08) Degree Applicable, CSU 36 hours lecture 54 hours lab Introduction to basic food science principles and food preparation procedures with emphasis on ingredient functions and interaction; food preparation techniques and skills; sensory evaluation standards; food safety and sanitation; food preparation equipment and utensils; storage standards; and nutrient retention. |

| NF 25 — Essentials of Nutrition3 Units(CAN FCS02)Degree Applicable, CSU, UC54 hours lecturePrerequisite: Eligibility for ENGL 68Scientific concepts of nutrition related to the function of nutrients inbasic life processes with emphasis on current health issues; individualneeds; functions and sources of nutrients; scientific method for analysisand evaluation of nutrition information; dietary guidelines and currentnutrition recommendations; digestion, absorption and metabolism;health, fitness and disease; nutrition in the life span. | NF 61 — Creative Foods 3 Units Degree Applicable 36 hours lecture 54 hours lab Advisory: NF 20 or food preparation experience Instruction in the skills necessary for more advanced methods of food preparation. Topics include garde manger, baking and pastry, and international cuisine, techniques of healthy cooking, and vegetarian cuisine with emphasis placed on knife skills, garnishing, plate presentation and creative decorating. | OCEA 10H — Introduction to Oceanography - Honors 3 Units Degree Applicable, CSU, UC 54 hours lecture Prerequisite: Acceptance into the Honors Program An honors course designed to provide an enriched experience. Introduces the geological, chemical, physical, and biological aspects of the Earth's ocean. Topics include plate tectonics, physiography of ocean basins and continental margins, ocean sediment, atmosphere and ocean circulation, waves and tides, coasts, and marine ecology. The companion Oceanography Lab (OCEA 10L) is recommended for students needing a lab to transfer to a 4-year collene/university. Field trins are required |
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| NF25H — Principles of Nutrition - Honors3 Units(CAN FCS02)Degree Applicable, CSU, UC54 hours lecturePrerequisite: Acceptance into the Honors ProgramScientific concepts of nutrition related to the function of nutrients inbasic life processes with emphasis on current health issues; individualneeds; functions and sources of nutrition; cietary guidelines and currentnutrition recommendations; digestion, absorption and metabolism;health, fitness and disease; nutrition in the life span. An honors coursedesigned to provide an enriched experience. Students may not receivecredit for both NF 25 and NF 25H.NF 28 — Cultural and Ethnic Foods3 UnitsDegree Applicable, CSU, UC54 hours lectureAdvisory: Eligibility for ENGL 68Regional, ethnic, cultural, religious, historical and social influences onfood patterns and cuisines. Core components: specialized equipment andutensils related to cultures; traditional foods of selected cultures;geographic factors in food availability; global food issues; sanitation andsafety practices.NF 30 — Food Science Technologies3 UnitsDegree Applicable, CSU54 hours lectureAdvisory: Eligibility for ENGL 68Exploration of food chemistry, food processing and technology and howthese affects the color, flavor, texture, aroma and quality of foods. Corecomponents: government regulation of processing and labeling, sensoryevaluation, scientific research methods, function of water in foods, pHand acidity, food processing technologies, nutritional l | NF 62 — Meal Management 3 Units Degree Applicable, CSU 36 hours lecture 54 hours lab Advisory: NF 20 or equivalent food preparation experience Develop management skills related to food preparation, emphasizing planning, preparing, and serving adequate and attractive meals while managing resources including time, money and labor. Includes laboratory experience in planning, preparing and serving meals. NF 81 — Cooking for Your Heart and Health 1 Unit Not Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 12 hours lecture 18 hours lab Principles and techniques of healthful food preparation emphasizing the reduction of fat, saturated fat, trans fat, cholesterol, and sodium, and the increase of fiber and nutrients in foods. The course includes laboratory experience in preparation of health promoting foods and meals. NF 82 — Vegetarian Cuisine 1 Unit Not Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 12 hours lecture 18 hours lab Principles and techniques of vegetarian food preparation and investigation of issues related to vegetarian eating practices. Includes laboratory experience in preparation of vegetarian foods and meals. OCEA 10 — Introduction to Oceanography 3 Units Degree Applicable, CSU, UC 54 hours lecture An introduction to the ocean environment including the geologic, chemical, physical, and ecological | lab to transfer to a 4-year college/university. Field trips are required. Students may not receive credit for both OCEA 10 and OCEA 10H. OCEA 10L — Introduction to Oceanography Laboratory 1 Unit Degree Applicable, CSU, UC 54 hours lab Corequisite: OCEA 10 or OCEA 10H (May have been taken previously) Laboratory applications and problem-solving in oceanography, including related aspects of geology, meteorology, and marine biology. Recommended for students needing a lab to transfer to a 4-year college/university. PHILOSOPHY PHIL 3 — Logic in Practice 3 Units (CAN PHILO6) Degree Applicable, CSU, UC 54 hours lecture Prerequisite: Eligibility for ENGL 68 The analysis of language as an instrument of sound thinking in morals, politics and everyday life. Assists students to analyze an argument, avoid faulty conclusions in reasoning, understand levels of meaning and kinds of arguments, avoid verbal pitfalls, understand the steps of scientific methods and identify value assumptions. PHIL 3H — Logic in Practice - Honors 3 Units Degree Applicable, CSU, UC 54 hours lecture Prerequisite: Acceptance into the Honors Program The analysis of language as an instrument of sound thinking in morals, politics and everyday life. Assists students to analyze an argument, avoid faulty conclusions in reasoning, understand levels of meaning and kinds of arguments, avoid verbal pitfalls, understand the steps of scientific methods and identify value assumptions. PHIL 3H — Logic in Practice - Honors Program The analysis of language as an instrument of sound thinking in morals, politics and everyday life. Assists students to analyze an argument, avoid faulty conclusions in reasoning, understand the steps of scientific methods and identify value assumptions. An honors course designed to provide an enriched experience. Students may not receive credit for both PHIL 3 and PHIL 3H. PHIL 5 — Introduction to Philosophy A units (CAN PHILO2) Degree Applicable, CSU, UC 54 hours lecture Prerequisite: Eligibility for |

| PHIL 5H — Introduction to Philosophy - Honors3 Units(CAN PHIL02)Degree Applicable, CSU, UC54 hours lecturePrerequisite: Acceptance into the Honors ProgramAn exploration of basic issues in ethics, social philosophy, metaphysics, theories of knowledge and contemporary philosophies of life. An honors course designed to provide an enriched experience. Students may not receive credit for both PHIL 5 and PHIL 5H.PHIL 8 — Critical Thinking3 Units Degree Applicable, CSU, UC54 hours lectureThe effective use of critical thinking in contemporary living, including recognizing faulty arguments, the usefulness of validity and truth, identifying and avoiding common fallacies in thinking.PHIL 9 — Critical Thinking and Logical Writing3 Units Degree Applicable, CSU, UC54 hours lectureThe function and use of formal and informal logic, argument, critical evaluation, and language in written composition.PHIL 12 — Ethics3 Units S UCS4 hours lecture3 Units Degree Applicable, CSU, UC | PHIL 15H — Major World Religions - Honors3 Units Degree Applicable, CSU, UC54 hours lecturePrerequisite: Acceptance into the Honors ProgramExamines the salient features of the world's major and enduring religions. Religion is approached as the expression of one's ultimate concern as a means of understanding the historic and ideological foundations and aspirations of the peoples of the world. The following religions are presented and examined both appreciatively and critically: Hinduism, Buddhism, Taoism, Confucianism, Shinto, Judaism, Christianity, Islam. An honors course designed to provide an enriched experience. Students may not receive credit for both PHIL 15 and PHIL 15H.PHIL 20A — History of Western Philosophy3 Units Degree Applicable, CSU, UC CAN PHIL SEQ A 54 hours lecture Examines the major western philosophers and philosophical ideas from pre-Socratic times to the Renaissance.PHIL 20B — History of Western Philosophy3 Units Degree Applicable, CSU, UC CAN PHIL SEQ A 54 hours lecturePHIL 20B — History of Western Philosophy3 Units Degree Applicable, CSU, UC CAN PHIL SEQ A 54 hours lecture | PHOT 4 — Digital Cameras and Composition 1 Unit Not Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 18 hours lecture Use of digital cameras, lenses, filters, and exposure to compose quality photographs. Shooting assignments are given for analysis in class. Camera will be required after the second week. PHOT 10 — Basic Digital and Film Photography 3 Units Degree Applicable, CSU, UC 36 hours lecture 54 hours lab The basic mechanical, optical, and chemical principles of photography, including digital image systems. Laboratory experience involves problems related to camera and image output techniques. PHOT 11 — Advanced Professional Photography 4 Units Degree Applicable 36 hours lecture 108 hours lab PHOT 10 — Basic Digital and Film Photography 4 Units Degree Applicable 26 hours lecture 36 hours lecture 108 hours lab Prerequisite: PHOT 10 Exploration of current professional photographic techniques. Exploration of current professional photography. Topics include but are not limited to medium and large format film and digital cameras and |
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| 54 hours lecture Prerequisite: Eligibility for ENGL 1A A critical analysis of empirical and normative factors involved in choice, including an examination of major ethical theories and their application to the study of moral problems. PHIL 12H — Ethics - Honors 3 Units (CAN PHIL04) Degree Applicable, CSU, UC 54 hours lecture Prerequisite: Acceptance into the Honors Program Critical analysis of empirical and normative factors involved in choice, including an examination of major ethical theories and their application to the study of moral problems. An honors course designed to provide an enriched experience. Students may not receive credit for both PHIL 12 and PHIL 12H. PHIL 15 — Major World Religions 3 Units | the Renaissance to the twentieth century. PHOTOGRAPHICS PHOT 1 — Laboratory Studies: Black and 1 Unit White Photography Not Degree Applicable (May be taken four times for credit) (May be taken for Pass/No Pass only) 54 hours lab <i>Corequisite: PHOT 10 (may have been taken previously)</i> Extended black and white laboratory experiences to supplement those available in the regular program. Provides students the opportunity to pursue more advanced projects and experiments. Students who repeat this course will improve skills through further instruction and practice. PHOT 2 — Laboratory Studies: Color Photography 1 Unit Not Degree Applicable | computer basics for professional photographers. Students must furnish SLR camera. PHOT 12 — Photographic Alternatives 3 Units Degree Applicable, CSU, UC 36 hours lecture 54 hours lab Prerequisite: PHOT 10 Explores the use of continuous tone and alternative black and white techniques and processes. Emphasis will be on solving photographic problems through the use of current techniques such as montage printing, Polaroid and xerographic applications, hand coloring, and emulsion coating (cyanotype, Luminous/Liquid Light) as well as other special techniques. PHOT 14 — Commercial Lighting 4 Units Degree Applicable |
| 54 hours lecture <i>Prerequisite: Eligibility for ENGL 68</i> Examines the salient features of the world's major and enduring religions. Religion is approached as the expression of one's ultimate concern as a means of understanding the historic and ideological foundations and aspirations of the peoples of the world. The following (or more) religions are presented and examined both appreciatively and critically: Hinduism, Buddhism, Taoism, Confucianism, Islam, Judaism, and Christianity. | (May be taken four times for credit) (May be taken for Pass/No Pass only) 54 hours lab <i>Corequisite: PHOT 20 (may have been taken previously)</i> Extended color laboratory experiences to supplement those available in the regular program. Provides students the opportunity to pursue more advanced projects and experiments. Students who repeat this course will improve skills through further instruction and practice. | (May be taken four times for credit) 36 hours lecture 108 hours lab <i>Prerequisite: PHOT 10</i> <i>Advisory: PHOT 11</i> Use of studio equipment, and studio and location lighting techniques used in all aspects of commercial photographic applications. Students must furnish adjustable SLR camera. |

| PHOT 15 — History of Photography 3 Units Degree Applicable, CSU, UC 54 hours lecture Survey of the history of photography from circa 1839 to the present. An introduction to concepts of photographic representation and their impact on society. | PHOT 21 — Exploring Color Photography 3 Units Degree Applicable 36 hours lecture 54 hours lab Prerequisite: PHOT 20 Explores the application of color processes as they relate to commercial and artistic styles. Emphasis is on innovative use of color and | PHYSICAL EDUCATION: ADAPTIVE PE-L 2 — Physical Fitness for the Physically Limited .5 to 1 Unit Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity A medified muscular conditioning program using machines and free |
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| PHOT 16 — Fashion Photography 3 Units Degree Applicable 36 hours lecture 54 hours lab | contemporary techniques. Includes media manipulation and unique processing, coloring negatives, 8x10 Polaroid, digital imagery, specialized lighting, set building, and quality control. | A modified muscular conditioning program using machines and free weights specifically designed to assist students with a physical challenge. Students who repeat this course will improve daily living skills through further instruction and prctice. |
| Prerequisite: PHOT 11 Illustrative, editorial and advertising fashion photography. Studio and location production in both black and white and color are emphasized. Aspects of business operation and working with clients are explored. PHOT 17 — Photocommunication 3 Units Degree Applicable | PHOT 28 — Photography Portfolio Development 3 Units Degree Applicable 36 hours lecture 36 hours lab 97 Prerequisite: Minimum 12 units of photography at Mt. San Antonio College or equivalent preparation Development of a photography portfolio for job application or gallery | PE-L 4 — Adaptive Aquatics 1 Unit Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 54 hours activity Designed to assist students with a disability or limitation to develop or improve swimming skills. Appropriate for swimmers and nonswimmers. |
| 36 hours lecture 72 hours lab <i>Prerequisite: PHOT 10</i> Explores the application of the photosensitive materials, photochemicals and optics. The emphasis will be on the aesthetic and expressive uses to | exhibition purposes. PHOT 30 — Commercial and Illustrative Photography 3 Units Degree Applicable 36 hours lecture | Students who repeat this course will improve their skills through further instruction and practice. PE-L 10 — Wheelchair Sports1 Unit |
| which these materials lend themselves. The student is expected to supply his/her own adjustable camera. PHOT 18 — Portraiture and Wedding Photography 3 Units Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture | 54 hours lab <i>Prerequisite: PHOT 11, PHOT 20</i> Application of photographic principles to commercial and illustrative photography. Practical experience in studio product photography, illustration, fashion, and architectural photography. Areas of promotion and pricing will be covered. Both black-and-white and color media will be used. | Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 54 hours activity Designed to develop and enhance sports skills and technique for students using a wheelchair. Introduction to basic rules, skills, conditioning and strategies for a variety of sports. Students who repeat |
| 54 hours lab Techniques and photographic procedures for taking informal, formal, environmental and group portraits. In depth study and practice in professional wedding photography. | PHOT 99 — Special Projects in Photography 2 Units Degree Applicable (May be taken four times for credit) | this course will improve their skills through further instruction and practice. PE-L 14 — Activity Programs for the Physically Limited .5 to 1 Unit Degree Applicable, CSU, UC |
| PHOT 20 — Color Photography3 Units Degree Applicable(May be taken for option of letter grade or Pass/No Pass)36 hours lecture54 hours labPrerequisite: PHOT 10An introduction to current methods of producing color media, color negatives, positive transparencies, and outputting color prints. | 36 hours lecture In order to offer selected students recognition for their academic interests and ability and the opportunity to explore their disciplines to greater depth, the various departments from time to time offer Special Projects courses. The content of each course and the methods of study vary from semester to semester and depend on the particular project under consideration. Students must have an instructor's authorization before enrolling in this course. Students repeating this course will make individual contracts of a more advanced nature with the instructor to | (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity Designed for students with a disability or limitation who require special assistance or equipment to participate in leisure activities. Course content will vary each semester in order to meet current students? needs. Students who repeat this course will improve their skills through further instruction and practice. |
| | insure that proficiencies are enhanced. | PE-L 18 — Weight Training for the Physically Limited .5 to 1 Unit Degree Applicable, CSU, UC(May be taken four times for credit)(May be taken for option of letter grade or Pass/No Pass)36 to 54 hours activityDesigned to assist students with a physical limitation develop strength, flexibility and endurance through weight training. Students are introduced to basic skills and strategies of the health-related physical fitness. Students who repeat this course will improve skills through further instruction and practice. |

COURSE DESCRIPTIONS

| PHYSICAL EDUCATION: AQUATICS | PE-A 8C — Swimming - Advanced .5 to 1 Unit | PE-A 21 — Aqua Aerobics .5 to 1 Unit |
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| Cluster repeatability: Credit students are limited to enroll up to 4 times only for any combination of courses within a designated cluster, regardless of the individual course unit values. Clusters: PE-A 8A, PE-A 8B, PE-A 8C | Character Construction of the symming - Advanced Construction of the symming - Advanced Construction of the symming and the symmetry of the sy | (May be taken four times for credit) Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity Designed to improve cardiovascular endurance, strength, agility, flexibility and general fitness through the mode of dynamic movement in the water. Appropriate for swimmers and nonswimmers. Students who repeat this course will improve skills through further instruction and practice. |
| PE-A 4 — Lifeguard Training 1 Unit Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 54 hours activity Prerequisite: 15 years of age or older, demonstrate ability to swim 500 yards using crawl, breaststroke, elementary backstroke, and sidestroke; surface dive to 9 feet and bring a ten pound brick to surface; swim under water 15 yards; tread water for two minutes continuously, legs only Meets American Red Cross requirements for lifeguard training. To receive cartification, studenter must page the written and practical chills test | will improve skills through further instruction and practice. PE-A 14 — Water Polo .5 to 1 Unit Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity Fundamental water polo skills including conditioning, drills, and game situations. Students who repeat this course will improve skills through further instruction and practice. PE-A 16 — Water Safety Instructor 2 Units | PE-A 24 — Aquatic Off-Season Conditioning .5 to 1 Unit (May be taken four times for credit) Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity A conditioning course for the competitive swimmer to receive individualized training in order to improve performance. Students who repeat this course will improve skills through further instruction and practice. PHYSICAL EDUCATION: ATHLETICS Cluster repeatability: Credit students are limited to enroll up to 4 times only for any |
| certification, students must pass the written and practical skills test with an 80% or better. Students who meet all qualifications will receive the American Red Cross Lifeguard Training, C.P.R. for the Professional Rescuer and First Aid Certificates. The objective for students who repeat this course is to recertify and improve rescue techniques through supervised practice and instruction. PE-A 8A — Swimming - Beginning .5 to 1 Unit Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity Designed to teach basic swimming strokes and aquatic skills to individuals with little or no swimming ability. Students who repeat this course will improve skills through further instruction and practice. | (CAN PE10) Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 108 hours activity Prerequisite: 1) 17 years of age or older at the start of the course; 2) Demonstrate proficiency equivalent to Level VI of the American Red Cross Learn to Swim Program; 3) Demonstrate skills on a proficiency level equal to the American Red Cross Emergency Water Safety course Analysis and performance of swimming skills related to safety; theory and application of methods of organizing and presenting aquatic materials. Satisfactory completion of the course may lead to the American Red Cross Water Safety Instructor's Certificate. Repeating this course will allow for renewal of certificate and improve skills through further instruction and practice. | combination of courses within a designated cluster, regardless of the individual course unit values. <i>Clusters:</i> PE-X 8A, PE-X 8B PE-X 10A, PE-X 10B PE-X 6 — Baseball - Men 2 Units (May be taken four times for credit) Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 180 hours activity Enrollment is limited to team candidates and includes a minimum of 10 hours per week practice and intercollegiate competition. Students who repeat this course will improve skills through further instruction and practice. |
| PE-A 8B — Swimming - Intermediate .5 to 1 Unit Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity Designed to improve competence in swimming ability for individuals who have had instruction in all of the basic strokes and can swim in deep water. Students who repeat this course will improve skills through further instruction and practice. | PE-A 18 — Springboard Diving.5 to 1 Unit(May be taken four times for credit)Degree Applicable, CSU, UC(May be taken for option of letter grade or Pass/No Pass)36 to 54 hours activityStudent must possess above average diving ability or experience intumbling or gymnastics. Individualized instruction in the fundamentalsand techniques of springboard diving. Students who repeat this coursewill improve skills through further instruction and practice. | PE-X 8A — Basketball - Men1 Unit(May be taken four times for credit)Degree Applicable, CSU, UG(May be taken for option of letter grade or Pass/No Pass)90 hours activityIntended for Men's Intercollegiate Basketball Team candidates to provide instruction in the components of training and conditioning related to the sport of basketball. Students who repeat this course will improve skills through further instruction and practice.PE-X 8B — Basketball - Men1 Unit (May be taken four times for credit)Degree Applicable, CSU, UG (May be taken for option of letter grade or Pass/No Pass)90 hours activity Advisory: PE-X 8A Intended for Men's Intercollegiate Basketball Team candidates to provide instruction in the components of training and conditioning related to the sport of basketball. Students who repeat this course will improve skills through further instruction and practice. |

| PE-X 42 — Track and Field - Women 2 Units Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 180 hours activity Designed for students wishing to compete and/or train in intercollegiate track and field. Students will participate in a minimum of 10 hours per week at practice and intercollegiate competition. Students who repeat this course will improve skills through further instruction and practice. | PE-X 50 — Wrestling - Men 2 Units Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 180 hours activity Enrollment is for Men's Intercollegiate Wrestling Team candidates and provides instruction in the components and conditioning related to the sport of wrestling. Students who repeat this course will improve through further instruction and practice. | PE-F 2A — Body Building - Beginning .5 to 1 Unit Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity Basic fundamentals of strength development and physical conditioning. Students who repeat this course will improve skills through further instruction and practice. PE-F 2B — Body Building - Advanced .5 to 1 Unit |
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| PE-X 44 — Volleyball - Men 2 Units Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 180 hours activity Enrollment is limited to team candidates and includes a minimum of 10 hours per week of practice and intercollegiate competition. Students who repeat this course will improve skills through further instruction and practice. | PE-X 70 — Pep Squad2 Units Degree Applicable(May be taken four times for credit)(May be taken for option of letter grade or Pass/No Pass)180 hours activityProvides training and experience for members of pep squads or rally units who are directly supportive of Mt. SAC activities. Students who repeat this course will improve skills through further instruction and practice. | Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity Advanced fundamentals of strength development and physical conditioning. Students who repeat this course will improve skills through further instruction and practice. PE-F 4 — Cardiovascular Conditioning .5 to 1 Unit Degree Applicable, CSU, UC |
| PE-X 46 — Volleyball - Women 2 Units Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 180 hours activity Advisory: PE 75 Enrollment is limited to team candidates and includes a minimum of 10 hours per week of practice and intercollegiate competition. Students | PE-X 88 — Pre-Season Athletics .5 to 2 Units Degree Applicable, CSU (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 36 to 180 hours activity Pre-season intercollegiate athletics. Enrollment is limited to athletic team candidates and includes, sport specific aerobic and anaerobic conditioning, drill technique, strength conditioning, speed development | (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity Designed to improve fitness levels through cardiovascular activities. Students who repeat this course will improve skills through further instruction and practice. PE-F 6A — Physical Fitness - Beginning (May be taken four times for credit) Degree Applicable, CSU, UC |
| who repeat this course will improve skills through further instruction and practice. PE-X 48 — Water Polo - Men 2 Units Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) | and game play. Students who repeat this course will improve skills and fitness through further instruction and practice. PE-X 99 — Off-Season Athletics .5 to 2 Units Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) | (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity Presents beginning components of physical fitness. Students identify individual fitness level and participate in activities designed to improve overall fitness. Students who repeat this course will improve skills through further instruction and practice. |
| 180 hours activity Enrollment is limited to team candidates and includes a minimum of 10 hours per week of practice and intercollegiate competition. Students who repeat this course will improve skills through further instruction and practice. PE-X 49 — Water Polo - Women 2 Units Degree Applicable, CSU, UC (May be taken four times for credit) | 36 to 180 hours activity Designed for athletic team candidates in an off-season program. Includes sport-specific training with the purpose of developing areas of individual weaknesses. Students who repeat this course will improve skills through further instruction and practice. PHYSICAL EDUCATION: FITNESS Cluster repeatability: | PE-F 6B — Physical Fitness - Intermediate.5 to 1 Unit(May be taken four times for credit)Degree Applicable, CSU, UC(May be taken for option of letter grade or Pass/No Pass)36 to 54 hours activityDevelops components of physical fitness. Students analyze individualfitness level and participate in activities designed to improve overallfitness. Students who repeat this course will improve skills throughfurther instruction and practice. |
| (May be taken for option of letter grade or Pass/No Pass) 180 hours activity Enrollment is limited to team candidates and includes a minimum of 10 hours per week of practice and intercollegiate competition. Students who repeat this course will improve skills through further instruction and practice. | Credit students are limited to enroll up to 4 times only for any combination of courses within a designated cluster, regardless of the individual course unit values. <i>Clusters:</i> <i>PE-F 2A, PE-F 2B</i> <i>PE-F 6A, PE-F 6B, PE-F 6C</i> | PE-F 6C — Physical Fitness - Advanced.5 to 1 Unit(May be taken four times for credit)Degree Applicable, CSU, UC(May be taken for option of letter grade or Pass/No Pass)36 to 54 hours activityDetermines advanced components of physical fitness. Students integrateindividual fitness level and participate in activities designed to improveoverall fitness. Students who repeat this course will improve skillsthrough further instruction and practice. |

| PE-F 9 — Conditioning for Sports .5 to 1 Unit Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity A conditioning course for athletes to develop fundamental skills and techniques for intercollegiate athletic competition. Students who repeat this course will improve skills through further instruction and practice. PE-F 10 — Weight Training .5 to 1 Unit Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken four times for credit) (May be taken four option of letter grade or Pass/No Pass) 36 to 54 hours activity A muscular conditioning pogram using machines and free weights. Students who repeat this course will improve skills through further instruction and practice. PE-F 12 — Fitness and Body Conditioning PE ta — Fitnes and Body Conditioning .5 to 1 Unit Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity Credit management, stress reduction and the benefit of exercise on overall health. Students who repeat this course will improve skills through further instruction and practice. PE-F 13 — Exercise Dynamics 2 Units Degree Applicable, CSU, UC | PE-F 18 — Fitness Fundamentals 2 Units Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken four option of letter grade or Pass/No Pass) 108 hours activity Provides the foundations in specific areas of fitness to set-up, maintain and organize a personalized fitness program. Presents in-depth coverage of each area of fitness in managing and promoting an individualized fitness regime. Students who repeat this course will improve skills through further instruction and practice. PE-F 19 — Strength Training 2 Units Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 108 hours activity Degree Applicable, CSU, UC May be taken four times for credit) (May be taken four times for credit) (May be taken four times for credit) (May be taken four times for credit) (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 108 hours activity Fitness training with increased frequency and duration. Includes nutrition, exercise concepts, stress management, cardiovascular conditioning, muscle strength and flexibility training. Students who repeat this course will improve skills through further instruction and practice. PE-F 25 — Core Performance and Foundation Movement practice. 2 Units Degree Applicable, CSU, UC May be taken for option of letter grade or Pa | PE-F 31 — Fitness Testing 1 Unit Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 54 hours activity Personal fitness assessment of body composition, strength, strength endurance, cardiovascular endurance and flexibility. Includes nutrition, fitness components, stress management, interpretation of assessment results, and exercise guidelines. Students who repeat this course will improve skills through further instruction and practice. PE-F 34 — Cardiorespiratory Training .5 to 2 Units Degree Applicable, CSU, UC (May be taken foor option of letter grade or Pass/No Pass) 36 to 108 hours activity Individualized exercise programs designed to improve cardiorespiratory performance. Students who repeat this course will improve skills through further instruction and practice. PE-F 36 — Circuit Training .5 to 2 Units Degree Applicable, CSU, UC (May be taken foor option of letter grade or Pass/No Pass) 36 to 108 hours activity Degree Applicable, CSU, UC (May be taken foor option of letter grade or Pass/No Pass) 36 to 108 hours activity Muscular strength and endurance exercise on circuit training equipment. Students who repeat this course will improve skills through further instruction and practice. PE-F 38 — Aerobics .5 to 2 Units Degree Applicable, CSU, UC (May be taken foor option of letter grade or Pass/No Pass) <t< td=""></t<> |
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| Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) | Degree Applicable, CSU (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) | Degree Applicable, CSU (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 108 hours activity |

| PE-F 51 — Agility Testing Preparation 1 Unit for Administration of Justice and Fire Technology Degree Applicable, CSU (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 71 hours activity A training program directed toward physical agility testing approximating the testing process required by various law enforcement and fire agencies. Students who repeat this course will improve skills through further instruction and practice. | PHYSICAL EDUCATION: INDIVIDUAL Cluster repeatability: Credit students are limited to enroll up to 4 times only for any combination of courses within a designated cluster, regardless of the individual course unit values. Clusters: PE-14A, PE-14B, PE-14C PE-18A, PE-18B, PE-18C PE-127A, PE-127B | PE-I 18A — Golf - Beginning .5 to 1 Unit (May be taken four times for credit) Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity Basic fundamentals of golf. Emphasis on technique, strategy, and rules. Students who repeat this course will improve skills through further instruction and practice. PE-I 18B — Golf - Intermediate .5 to 1 Unit (May be taken four times for credit) Degree Applicable, CSU, UC (May be taken four times for credit) Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) .5 to 1 Unit |
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| PE-F 52 — Fitness and Conditioning for 1 Unit Administration of Justice, Fire Technology, and Forestry Degree Applicable, CSU (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 71 hours activity A conditioning program to maintain strength, agility, cardiovascular | PE-I 30A, PE-I 30B PE-I 31A, PE-I 31B PE-I 37A, PE-I 37B, PE-I 37C PE-I 40A, PE-I 40B, PE-I 40C PE-I 1 — Rock Climbing 1 Unit | Students must have their own golf clubs. Classes will be held at sites will improve skills through further instruction and principles. |
| A contributing program to maintain strength, aginty, cardiovascular fitness and flexibility necessary to perform the tasks required of personnel in fields of law enforcement, fire science and forestry. Students who repeat this course will improve skills through further instruction and practice. PE-F 53 — Physical Training for the Basic Fire Academy 2.5 Units | (May be taken four times for credit) Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 54 hours activity Instruction in rock climbing. Includes preparation, equipment, techniques and strategies of rock climbing. Students who repeat this course will improve skills through further instruction and practice. | PE-I 18C — Golf - Advanced .5 to 1 Unit (May be taken four times for credit) Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity Instruction and practice for the proficient golfer (Sub 15 Handicap). Emphasis on golf swing analysis. Golf classes will be held at sites both |
| Degree Applicable, CSU (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 68 hours lecture 68 hours activity Prepare the Basic Fire Academy student for the physical demands of the fire service. Through a supervised individualized training program, the student will acquire cardiovascular endurance, flexibility and strength. Students who repeat this course will improve skills through further | PE-I 4A — Badminton - Beginning.5 to 1 Unit(May be taken four times for credit)Degree Applicable, CSU, UC(May be taken for option of letter grade or Pass/No Pass)36 to 54 hours activityBeginning badminton fundamentals and techniques, including singlesand doubles play. Students who repeat this course will improve theirskills through further instruction and practice.PE-I 4B — Badminton - Intermediate.5 to 1 Unit(May be taken four times for credit)Degree Applicable, CSU, UC | on and off the MT.SAC campus. Golf clubs required. Students who repeat this course will improve skills through further instruction and practice. PE-1 25 — Mixed Martial Arts .5 to 1 Unit (May be taken four times for credit) Not Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity The sport of submission grappling. An integration of striking and close- combat martial arts. Students who repeat this course will improve their skills through further instruction and practice. |
| instruction and practice. PE-F 59 — Firefighter Physical Ability Test .1 Unit Not Degree Applicable (May be taken four times for credit) (May be taken for Pass/No Pass only) 2 hours activity Administration of physical ability test examination. Includes nutrition, safety, body mechanics, exercise guidelines and execution of fire-related | (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity Intermediate badminton techniques, including singles and doubles play. Students who repeat this course will improve skills through further instruction and practice. PE-1 4C — Badminton - Advanced (May be taken four times for credit) Degree Applicable, CSU, UC | PE-1 27A — Jeet Kune Do - Beginning.5 to 1 Unit(May be taken four times for credit)Degree Applicable, CSU, UC(May be taken for option of letter grade or Pass/No Pass)36 to 54 hours activityFundamentals and principles of Bruce Lee's martial art. Emphasis onfootwork, distance, and technique for combat efficiency in self-defense.Students who repeat this course will improve proficiency as a result ofcontinued instruction and practice. |
| tasks. Successful completion of this course is required by various fire agencies for employment. Students must obtain test packet from website: firepat.mtsac.edu prior to enrolling. Repeating this course will allow for renewal of certificate and improvement of technique through further instruction and practice. | (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity Advanced badminton techniques, including singles and doubles tournament play. Students who repeat this course will improve their skills through further instruction and practice. | PE-1 27B — Jeet Kune Do - Intermediate .5 to 1 Unit Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity Intermediate principles of Bruce Lee's martial art. Intermediate level footwork, distance, and technique (punching, kicking, and grappling) for combat efficiency. Students who repeat this course will improve proficiency as a result of continued instruction and practice. |

COURSE DESCRIPTIONS

| PE-I 40C — Tennis - Advanced.5 to 1 Unit Degree Applicable, CSU, UC(May be taken four times for credit)(May be taken for option of letter grade or Pass/No Pass)36 to 54 hours activityAdvanced tennis techniques and strategies for the experienced player. Students who repeat this course will improve skills through further instruction and practice.PE-I 44 — Track and Field.5 to 1 Unit Degree Applicable, CSU, UC(May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity Basic instruction, conditioning and training for the various track and field events. Students who repeat this course will improve skills through further instruction and practice.PE-I 48 — Wrestling.5 to 1 Unit Degree Applicable, CSU, UC(May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity Wrestling skills, fundamentals and match competition. Students who repeat this course will improve skills through further instruction and practice.PE-1 50A — Yoga.5 to 1 Unit Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity Yoga instruction with major emphasis on practice of yoga asanas, proper | PHYSICAL EDUCATION: TEAM SPORT Cluster repeatability: Credit students are limited to enroll up to 4 times only for any combination of courses within a designated cluster, regardless of the individual course unit values. Clusters: PE-S 24A, PE-S 24B, PE-S 24C PE-S 24A, PE-S 24B, PE-S 24C PE-S 2 — Basketball S to 1 Unit Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity Basic skills, fundamentals, rules and strategies for team play in basketball. Students who repeat this course will improve skills through further instruction and practice. PE-S 10 — Soccer S to 1 Unit Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity Soccer skills, fundamentals and game play. Students who repeat this course will improve skills through further instruction and practice. PE-S 12 — Baseball .5 to 1 Unit Degree Applicable, CSU, UC <tr< td=""><td>PE-S 18 — Indoor Soccer.5 to 1 Unit Degree Applicable, CSU, UC(May be taken four times for credit)(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity Indoor soccer skills, fundamentals and game play. Students who repeat this course will improve skills through further instruction and practice.PE-S 19 — Team Sports.5 to 1 Unit Degree Applicable, CSU, UC(May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity Instruction in the skills, techniques, and strategies of game play in one or more team sports. Students who repeat this course will improve skills through further instruction and practice.PE-S 24A — Volleyball - Beginning.5 to 1 Unit Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity Designed for individuals with previous experience in techniques and st</td></tr<> | PE-S 18 — Indoor Soccer.5 to 1 Unit Degree Applicable, CSU, UC(May be taken four times for credit)(May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity Indoor soccer skills, fundamentals and game play. Students who repeat this course will improve skills through further instruction and practice. PE-S 19 — Team Sports .5 to 1 Unit Degree Applicable, CSU, UC(May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity Instruction in the skills, techniques, and strategies of game play in one or more team sports. Students who repeat this course will improve skills through further instruction and practice. PE-S 24A — Volleyball - Beginning.5 to 1 Unit Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity Designed for individuals with previous experience in techniques and st |
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| breathing techniques and relaxation strategies. Students who repeat this course will improve skills through further instruction and practice. PE-I 51 — Iyengar Yoga .5 to 1 Unit Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity Fundamentals of lyengar yoga. Basic postures, alignments, strategy, history and philosophy. Students who repeat this course will improve their skills through further instruction and practice. PE-I 52 — Individual Sports .5 to 1 Unit Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity Individual sports technique enhancement. Includes cardiorespiratory, flexibility, muscle strength and endurance training modes. Students who repeat this course will improve skills through further instruction and practice. | repeat this course will improve skills through further instruction and practice. PE-S 13 — Football .5 to 1 Unit Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity Basic skills, rules and strategies for team play in football. Students who repeat this course will improve skills through further instruction and practice. PE-S 16 — Softball .5 to 1 Unit Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken four times for credit) (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity Basic skills, rules and strategies for team play in the sport of slowpitch softball. Students who repeat this course will improve skills through further instruction and practice. | skills through further instruction and practice. PE-S 24C — Volleyball - Advanced .5 to 1 Unit Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity Designed for individuals with previous experience in advanced techniques and strategies of volleyball. Students who repeat this course will improve skills through further instruction and practice. PE-S 35 — Roller Hockey .5 to 1 Unit Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity Fundamentals of roller hockey will be presented. Includes basic technique, rules, strategy, and game play. Students who repeat this course will improve skills through further instruction and practice. |

| PHYSICAL EDUCATION: THEORY PF 3 — First Aid and CPR 3 Units Degree Applicable, CSU, UC S4 hours lecture Advisory: Eligibility for ENGL 68 Provides training, including laboratory experience in caring for victims of injuries, sudden illness and other medical emergencies; includes Community CPR. Students who successfully pass all requirements, will earn the appropriate American Red Cross First Aid Certificate and/or CPR Certificate. PF 5 — Advanced First Aid/CPR/Emergency Response 3 Units Degree Applicable, CSU S4 hours lecture Advisory: Eligibility for ENGL 68 Provides training and certifications, including laboratory experience for developing the First Aid and CPR skills required by public safety personnel, athletic trainers, emergency response team members, flight attendants, coaches and nurses. Students who successfully pass all requirements will receive an American Red Cross Certificate in Emergency Response and/or CPR for the Professional Rescuer. PE 10 — Fundamentals of Sport 2 Units Degree Applicable, CSU, UC 36 hours lecture Instruction in the theory and technique of various selected sports: Basketball, Baseball, Cross Country, Football, Golf, Soccer, Softball, Swimming, Tennis, Track and Field, Volleyball, Water Polo and/or Wrestling. | PE 19 — Introduction to Care/Prevention of Activity/Sports-Related Injuries Degree Applicable, CSU, UC 54 hours lecture Degree Applicable, CSU, UC 19 minutation Instruction, including laboratory experience, in the techniques and procedures for prevention and treatment of activity and sports-related injuries. Includes the responsibilities of the athletic trainer, policies and procedures of the athletic training room and the operation of rehabilitative modalities. PE 24 — Kinesiology 2 Units Degree Applicable May be taken for option of letter grade or Pass/No Pass) 36 hours lecture The study of movement as it relates to exercise and the interrelationships of body segments involved in human movement activity, actions of joints, nerves and muscle exercise. PE 33 — Fitness Assessment .5 Unit Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 9 hours lecture An integrated approach to healthy lifestyles. Includes pre and post fitness assessments, basic nutrition analysis, lifestyle behaviors and stress management. Interpretation of results includes goal-setting principles and development of basic exercise program. PE 34 — Fitness for Living 3 Units Degree Applicable, CSU, UC 54 hours lecture 3 Units Degree Applicable, CSU, UC 54 hours lecture 3 Units Degree Applicable, CSU, UC 54 hours lecture 3 Units | PE 40 — Techniques of Teaching Cardiovascular Exercise Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture Overview of the principles and techniques of teaching cardiovascular exercise, Includes both theory and practical instruction of cardiovascular exercise, special needs considerations, professional responsibilities and liabilities, group exercise design, treadmill, cycling and varieties of cardiovascular exercise. PE 41 — Techniques of Teaching Weight Training Cardiovascular exercise. 2 Units PE 41 — Techniques of Teaching Weight Training Cardiovascular exercise. 2 Units PE 41 — Techniques of Teaching Weight Training Cardiovascular exercise. 2 Units PE 41 — Techniques of Teaching Weight Training Cardiovascular exercise. 2 Units PE 41 — Techniques of Teaching Weight Training Cardiovascular exercise. 2 Units PE 44 — Theory of Coaching 3 Units Overview of the principles and techniques of teaching weight training. Includes muscle structure and function, training sequences, free weight and machine equipment, safety factors, including contraindications for exercise. 3 Units PE 44 — Theory of Coaching 3 Units Degree Applicable, CSU, UC 54 hours lecture 3 Units PE 48 — Lifeguard Training 3 Units |
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| team and individual sports. PE 15 Administration of Fitness Programs 2 Units Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture | Degree Applicable 54 hours lecture Theory of basic physiological concepts as they pertain to exercise training and the prescription of individual fitness programs. PE 39 — Techniques of Fitness Testing 2 Units | certification, students must pass written exams with a minimum of 80% and pass all practical skills tests. Students who meet all qualifications will be certified by the American Red Cross in Lifeguard Training, First Aid and C.P.R for the Professional Rescuer. PE 50 — Academy Entrance Exam .5 Unit Degree Applicable |

| practice.PE85 — Fitness Internship1 Unit Degree Applicable(May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 75 hours lab Provides fitness specialist students with actual on-the-job skill development in fitness testing, analysis and prescription. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. Work experience placement is not guaranteed, but assistance is provided by the Fitness Certificate faculty advisor. Students who repeat this course will improve skills through further instruction and practice.2 Units Degree ApplicablePE92 — Work Experience - Athletic Training2 Units Degree Applicable(May be taken four times for credit) 160 hours lab160 hours lab Provides Athletic Trainer Aides and physical education students with actual on-the-job experience in an approved worksite related to classroom instruction. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. Work experience placement is not guaranteed, but assistance is provided by the Athletic Trainer faculty and staff. Students who repeat this course will improve skills through further instruction and practice. | PHYSICAL SCIENCE PHSC 3 — Energy Science 4 Units Degree Applicable, CSU, UC 54 hours lecture 54 hours lab Provides a broad technical understanding of the physical principles underlying the various forms of energy production, the role of energy in modern society, and an understanding of the wider environmental and societal impacts of different energy production technology choices. Course topics will include: fossils fuels, nuclear energy, hydro, wind, solar energy, biofuels, and energy distribution and storage. Field trips required. PHSC 7 — Physical Science 3 Units Degree Applicable, CSU, UC 54 hours lecture Degree Applicable, CSU, UC 54 hours lecture 1 Unit Degree Applicable, CSU, UC 54 hours lab PHSC 7L — Physical Science Laboratory 1 Unit Degree Applicable, CSU, UC 54 hours lab Corequisite: PHSC 7 Laboratory topics will parallel the course content of Physical Science lecture. PHYSICAL THERAPY AIDE PHTH 81 — Physical Therapy aide. Procedures commonly performed by aides will b | PAP 102 — Service Learning/Seminar for Physician Assistant Preparatory Program Degree Applicable, CSU (May be taken for Pass/No Pass only) 36 hours lecture 216 hours lab Advisory: PAP 101 taken concurrently Prepares students for entrance into programs for the career of Physician Assistant. Examines and profiles community health care needs. Explores and directly allows students to interface with various patient populations. Requires weekend and overnight labs to various areas in California. Out-of-class projects required. Students who repeat this course will improve skills through further instruction and practice. PHYS1 — Physics 4 Units Degree Applicable, CSU, UC 54 hours lab PHYS1 — Physics 4 Units Degree Applicable, CSU, UC 54 hours lecture 54 hours lab Prerequisite: Eligibility for MATH 71 Discovery of basic concepts of physics by working through guided activities in a workshop style. Topics include light and geometrical optics, electricity and DC circuits (with capacitors,) linear and rotational motion, forces, momentum, energy, harmonic motion and waves. PHYS 2AG — General Physics 4 Hours lab Degree Applicable, CSU, UC CAN PHYS02) CAN PHYS2BG A 54 hours lecture 54 hours lab 4 Units Degree Applicable, CSU, UC CAN PHYS SEQ A 54 hours lecture 54 hours lab Prerequisite: MATH 150 The basic principles of physics. Includes theory, applications, laboratory, and problem solving in mechanics, heat, fluids, and wave motion. PHYS 2BG — General Physics (CAN PHYS SEQ A 54 hours lab 4 Units Degree Applicable, CSU, UC CAN PHYS SEQ A 54 hours lab Prerequisite: PHYS 2AG or equivalent A continuation of Physics 2AG. Includes electricity and magnetism (inc |
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| PHYS 4A — Engineering Physics5 Units(CAN PHYS08)Degree Applicable, CSU, UCCAN PHYS SEQ B72 hours lecture54 hours labPrerequisite: PHYS 2AGCorequisite: MATH 181 (may have been taken previously)Studies linear and rotational motion, forces, work, energy, oscillations, gravitation, properties of solids, and waves. Includes laboratoryexperience, with significant use of computers for data acquisition and analysis. | POLITICAL SCIENCE POLI 1 — Political Science 3 Units (CAN GOVT02) Degree Applicable, CSU, UC 54 hours lecture Principles and problems of government with particular emphasis on national government in the United States. This course satisfies the requirement for a course in the Constitution of the United States and the principles of State and local government as required by Title 5 of the California Administrative Code. POLI 1H — Political Science - Honors 3 Units | POLI 25 — Politics of the Mexican American 3 Units Degree Applicable, CSU, UC 54 hours lecture Advisory: Eligibility for ENGL 68 54 hours lecture Studies the impact that national, state and local governments have on the nation's largest ethnic minority (the Latino Community). Examines the national and state constitutions and the impact they have had on the Hispanic Community as a whole (not just Mexican Americans). Studies American institutions as they pertain to the Chicano Community and examines the Chicano Community's responses to the actions of the dominant political institutions. |
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| PHYS 4B — Engineering Physics5 Units(CAN PHYS12)Degree Applicable, CSU, UCCAN PHYS SEQ B72 hours lecture54 hours labPrerequisite: PHYS 4ACorequisite: MATH 280 (may have been taken previously)Heat, kinetic theory of gases, thermodynamics, electromagnetism | (CAN GOVT02) Degree Applicable, CSU, UC 54 hours lecture <i>Prerequisite: Acceptance into the Honors Program</i> Principles and problems of government with particular emphasis on national government in the United States. This course satisfies the requirement for a course in the Constitution of the United States and the principles of State and local government as required by Title 5 of the California Administrative Code. An honors course designed to provide an enriched experience. Students may not receive credit for | POLI 30 — California State and Local Government 3 Units Degree Applicable, CSU 54 hours lecture Advisory: Eligibility for ENGL 68 Surveys the forces shaping California government and analyzes the operation of governmental institutions within California and the political and fiscal challenges facing California. POLI 35 — African American Politics 3 Units |
| (including DC and AC circuits,) and Maxwell's equations. Laboratory includes significant use of computers for data acquisition, analysis and simulation. PHYS 4C — Engineering Physics 5 Units (CAN PHYS14) Degree Applicable, CSU, UC CAN PHYS SEQ B 72 hours lecture 54 hours lab Prerequisite: PHYS 4B Fluids, sound, electromagnetic waves, optics, diffraction and interference | both POLI 1 and POLI 1H. POLI 2 — Political Science 3 Units Degree Applicable, CSU, UC 54 hours lecture Prerequisite: POLI 1 or POLI 1H Advisory: Eligibility for ENGL 1A Comparative study of constitutional principles, governmental institutions, political processes, and ideologies in selected countries. POLI 5 — Political Science Theory 3 Units | Degree Applicable, CSU, UC 54 hours lecture Advisory: Eligibility for ENGL 68 Examines the methods and strategies employed by African-Americans in their quest to gain equal access and participation in American institutions. This course satisfies the requirement for a course in the Constitution of the United States and the principles of State and local government as required by Title 5 of the California Administrative Code. PSYCHOLOGY |
| of waves, relativity, quantum physics, atomic and nuclear structure, nuclear reactions and elementary particles. Laboratory includes significant use of computers for data analysis. PHYS 99 — Special Projects in Physics 2 Units Degree Applicable, CSU (May be taken four times for credit) 36 hours lecture Corequisite: PHYS 1 or PHYS 2AG or PHYS 4A (may have been taken | Degree Applicable, CSU, UC 54 hours lecture <i>Prerequisite: POLI 1 or POLI 1H</i> <i>Advisory: Eligibility for ENGL 1A</i> Emphasizes political science concepts and theories, institutions, political change, and dynamics. Designed to prepare students majoring in political science for further study in the discipline by adequate background preparation in the overall study of politics. | PSYC 1A — Introduction to Psychology3 Units(CAN PSY02)Degree Applicable, CSU, UC54 hours lecturePrerequisite: Eligibility for ENGL 68Develops an understanding of the basic principles of behavior andmental processes. The subject matter and research methods of scientificpsychology are presented. Topics include; history, biopsychology,sensation, perception, states of consciousness, learning, memory,forgetting, language, cognition, life-span development, gender, sexuality, |
| <i>previously</i>) In order to offer selected students recognition for their academic interests and ability, and the opportunity to explore their disciplines to greater depth, the various departments from time to time offer Special Projects courses. The content of each course and the methods of study vary from semester to semester and depend on the particular project under consideration. Student must have instructor's authorization before enrolling in this class. Students who repeat this course will improve skills by further instruction and practice. | POLI 9 — Introduction to International Relations 3 Units Degree Applicable, CSU, UC 54 hours lecture Advisory: Eligibility for ENGL 1A Acquaints students with the historical and political background of international relations. Attention is given to world politics, international organization and America's place in world affairs. | stress, health, motivation, emotions, social psychology, abnormality, treatment and social and diversity issues. |

| PSYC 1AH — Introduction to Psychology - Honors | 3 Units | PSYC 10 — Statistics for the Behavioral Sciences 4 U | Units |
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| (CAN PSY02) Degree A | pplicable, CSU, UC | (CAN PSY06) Degree Applicable, CSU | • • • • • • • |
| 54 hours lecture Prerequisite: Acceptance into the Honors Program | | 54 hours lecture 54 hours lab | |
| Develops an understanding of the basic principles und | | Prerequisite: PSYC 1A or SOC 1 and eligibility for MATH 110 | an |
| and cognition. The subject matter and methods of scie are presented. Topics include scientific methodology, hi | | Statistical principles of the behavioral sciences emphasizes research design scales of measurement, distributions, graphing, descriptive statistics, | gn, |
| biopsychology, sensation, perception, states of consciou memory, forgetting, language, cognition, intelligence, l | | measures of central tendency, measures of variability, z-test, independen and dependent t-tests, inferential statistics, confidence intervals, linear | ıt |
| development, personality, stress, health, motivation, en psychopathology, psychotherapeutic approaches, and s honors course designed to provide an enriched experie | ocial factors. An | correlations and regression, and analysis of variance, including multivaria factorial designs and chi square analyses. Statistical analyses through the of computerized statistical packages are interpreted through lab experier | e use |
| may not receive credit for both PSYC 1A and PSYC 1AH | | | Units |

54 hours lecture ackages are interpreted through lab experience. Provides a basic overview of the helping processes. Stresses application al Psychology **3 Units** of counseling theories, helping skills, and consultation theories to allow exploration of self as a helper and learn facilitating skills to bring about Degree Applicable, CSU, UC PSYC 1B — Biological Psychology 3 Units (CAN PSY10) Degree Applicable, CSU, UC 54 hours lecture change. Emphasis on establishing rapport, obtaining information and 54 hours lecture Advisory: Eligibility for ENGL 1A developing a supportive relationship in a variety of mental health Prerequisite: PSYC 1A or PSYC 1AH Examines the psychological principles of human development across the settings. Students may not receive credit for both PSYC 40 and MENT Advisory: Eliaibility for ENGL 1A lifespan, from birth to death. This course does not fulfill the Title 22 40. Biological mechanisms of behavior; introduction of evolution and requirements for Child Development majors. 3 Units PSYC 50 — Psychology of Human Relations genetics with emphasis on neuronal and synaptic transmission. PSYC 17 — Introduction to Human Services 3 Units **Degree Applicable** Develops a conceptual framework and awareness of the scientific Degree Applicable, CSU, UC 54 hours lecture method. Stresses specific methods of investigation for the discipline. 54 hours lecture Prerequisite: Eligibility for ENGL 68 Advisory: PSYC 1A or PSYC 1AH or SOC 1 or SOC 1H Develops students' understanding of themselves and their social PSYC 3 — Introduction to Research Methods in Psychology 4 Units (CAN PSY08) Degree Applicable, CSU, UC History, philosophy and development of human services in America. Explores relationships. Emphasizes self-evaluation, experience in small groups, 54 hours lecture careers in human services, self-exploration in matching personal and becoming sensitive to one's own feelings and to the feelings of others and the contributions of the behavioral sciences as resources for 54 hours lab professional interests to entry levels of human services employment. Prereauisite: PSYC 1A or PSYC 1AH and PSYC 10 or MATH 110 or MATH effective living. PSYC 19 — Abnormal Psychology **3 Units** 110H Degree Applicable, CSU, UC | **PSYC 99** — Special Projects in Psychology 2 Units Advisory: ENGL 1A 54 hours lecture Degree Applicable, CSU Research methods in the area of social science, especially in the Prereauisite: PSYC 1A or PSYC 1AH (May be taken four times for credit) discipline of psychology. American Psychological Association (APA) Application of principles of general psychology to the field of 36 hours lecture publication style taught and used with lab experience. Includes To offer selected students recognition for their academic interest and psychopathology. Major classifications of psychiatric disorders, their systematic observation, survey development, correlational studies, and ability and the opportunity to explore their disciplines to greater depth, causes and treatment modalities. Includes theoretical perspectives used design, execution and analysis of experiments. the various departments offer Special Project courses. The content of in abnormal psychology. each course and the methods of study vary from semester to semester PSYC 5 — Psychology of Reasoning and Problem Solving 3 Units PSYC 25 — The Psychology of Women 3 Units and depend on the particular project under consideration. Students Degree Applicable, CSU Degree Applicable, CSU, UC 54 hours lecture repeating this course will make individual contracts of a more advanced 54 hours lecture The nature of critical thinking; models and strategies; common fallacies nature with the instructor to ensure that proficiencies are enhanced. Advisory: PSYC 1A and ENGL 1A (taken prior or concurrently) of reasoning; self-regulation in the thinking process; application of A bio-cultural analysis of women. Emphasis will be placed on biological. **RADIO - TELEVISION** critical thinking to specific areas, such as comparison of cognitive and psychological and sociological data related to principles of development, information-processing models; more specifically: memory, thinking and R-TV 01 — Introduction to Broadcasting 3 Units socialization, learning, motivation, emotion and perception. problem solving, creativity, learning and forgetting, decision making and Degree Applicable, CSU reasoning. PSYC 26 — Psychology of Sexuality 3 Units 54 hours lecture Degree Applicable, CSU, UC Prerequisite: Eligibility for ENGL 68 54 hours lecture Survey course of the film and electronic media industries, concentrating Prerequisite: Eligibility for ENGL 68 on the United States. This includes cultural, historical, social, legal and Explores the factors involved in establishing and maintaining intimate economic issues in motion pictures, radio and television broadcasting, sexual relationships. The focus of the course is on the findings of social cable, satellite, internet and related technologies. psychologists concerning sexuality and love relationships in our culture.

4 Units | PSYC 33 — Psychology for Effective Living

disorders as well as therapeutic approaches.

Emphasis on comprehension and application of psychological principles

marriage, parenting, aging, and other circumstances encountered in the

to interpersonal relationships, personal growth, sexuality, vocation,

life cycle. Considers personality development and psychological

PSYC 40 — Introduction to Interviewing and Counseling

54 hours lecture

3 Units

3 Units

Degree Applicable

Degree Applicable, CSU

| Degree Applicable, CSU 54 hours lecture <i>Corequisite: R-TV 01 and R-TV 11A (may have been taken previously)</i> Developing a broadcast voice, style and understanding of the business for all areas of the industry, including disc jockey, newscaster and voice over artist. Students will also develop an understanding of the workings of voice and diction as they pertain to broadcasting and learn to evaluate the effectiveness of voice work done by others. Emphasis will also be placed on developing the content of on-air shows. Students will review the basics of the production studio and its components. | R-TV 06 — Broadcast Traffic Reporting1.5 Units Degree Applicable27 hours lectureDegree Applicable27 hours lectureCorequisite: R-TV 01 (may have been taken previously)The history and development of the techniques involved in radio and television traffic reporting through lecture and hands-on practice.Students will learn how to interpret and read police codes as they relate to traffic, accidents, and emergency situations and understand both broadcast rules and liabilities as they apply to traffic reporting.Emphasis on both the production and the delivery of reports. Students will work at the college radio station one hour per week delivering traffic reports during news broadcasts. | R-TV 10 — Radio Management and Programming 3 Units Degree Applicable 54 hours lecture <i>Corequisite: R-TV 01 (may have been taken previously)</i> An overview of the various techniques of programming a radio station, including various formats of music, news, talk and sports. Students will also look at the role of management at a station including budgeting, unions, ratings and FCC responsibilities. R-TV 11A — Beginning Radio Production 3 Units Degree Applicable, CSU 36 hours lecture |
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| R-TV 02A — On-Air Personality Development-Spanish Market 3 Units Not Degree Applicable 54 hours lecture <i>Corequisite: R-TV 01 and R-TV 11A (may have been taken previously)</i> Covers developing a broadcast voice, style and understanding of the business for all areas of Spanish-language broadcasting, including disc jockey, newscaster and voice over artist. Students will also develop an understanding of the workings of voice and diction as they pertain to broadcasting and learn to evaluate the effectiveness of voice work done by others. Emphasis will also | R-TV 07A — Beginning Commercial Voice-Overs 3 Units Not Degree Applicable 54 hours lecture <i>Advisory: R-TV 01</i> Development of voices for radio and television commercials, character voices, narrations, and animation. Also covers auditioning, working with agents and agencies, and understanding voice-over contracts. | 54 hours lab <i>Corequisite: R-TV 01 (may have been taken previously)</i> Operation of standard radio production equipment for both tape-based and digital production utilizing ProTools technology. Production skills concentrate on the use of voice, music and sound effects applied to a variety of elements including commercials and newscasts. R-TV 11B — Advanced Radio Production 3 Units Degree Applicable, CSU |
| be placed on developing the content of on-air shows suitable to the Spanish- language market. Students will review the basics of the production studio and its components. The course is taught in English. R-TV 03 — Sportscasting and Reporting 27 hours lecture 1.5 Units Degree Applicable | R-TV 07B — Advanced Commercial Voice-Overs 3 Units Degree Applicable 36 hours lecture 54 hours lab Instruction in advanced techniques used in the art of voicing for radio and TV commercials, animation and narration. Further development of audition and recording session skills. | 54 hours lecture Prerequisite: R-TV 11A Build upon the basic understanding of linear and non-linear recording, editing, and mixing as learned in R-TV 11A. Develop an understanding of the core concepts and skills required to work in a professional recording studio environment using Pro Tools, the industry standard for state of the art digital work stations. |
| Corequisite: R-TV 01 and R-TV 11A (may have been taken previously) Covers in-studio sportscasting, interviewing, field reporting and play-by- play for radio and television. Students will learn the legalities and ethics of covering sports, and how to work with professional sports teams and equipment technicians. Practical experience will be provided through coverage of Mt. SAC's athletic teams. Students who repeat this course will improve skills through further instruction and practice. R-TV 04 — Broadcast News Field Reporting 3 Units | R-TV 08 — KSAK Radio Studio Operations Degree Applicable, CSU (May be taken for Pass/No Pass only) 36 hours lecture <i>Corequisite: R-TV 01 (may have been taken previously)</i> A training course for positions at Mt. SAC's on-campus radio station, KSAK. Includes programming, production procedures, news, DJ and promotions, and FCC rules and regulations. Recommended for students working the programment of KSUK and the after an encoded to restudents | R-TV 12 — Commercial Copywriting3 Units Degree Applicable54 hours lecture Advisory: R-TV 01 Covers the creation and production of radio and television commercials. Includes using demographic research to target specific audiences, truth in advertising, slogan and campaign development, character creation, commercial formats, and the use of visual and audio appeals. |
| | wanting to become a part of KSAK and also offers an excellent overview of the components of a professional radio station. R-TV 09 — Broadcast Sales and Promotion 3 Units Degree Applicable 54 hours lecture <i>Corequisite: R-TV 01 (may have been taken previously)</i> Covers the strategies and legalities of advertising time sales for radio and television including FCC requirements, demographic targeting, marketing strategies, and working with agencies. The course also covers promotions, including the creation of contests and promotional campaigns. | R-TV 14 — Media Aesthetics 3 Units Degree Applicable 54 hours lecture <i>Prerequisite: ENGL 67</i> Media aesthetics for television and film presentation. Stresses critical, theoretical and practical analysis. Material is presented from a producer/artist point of view and is intended for those pursuing a career in film, television, and other electronic visual media, presenting material from the producer/artist point of view. |

| R-TV 15 — Broadcast Business Practices 3 Units Degree Applicable 54 hours lecture <i>Corequisite: R-TV 01 (may have been taken previously)</i> A basic overview of the radio and television industry as a business for profit. Basic techniques are discussed and examined in negotiating with station management and agents as well as dealing with contracts, residuals, re-use rights, mergers, protection of intellectual properties, union representation and FCC law. professional ethics and broadcasters' response bilities to their availances are also discussed | R-TV 20 — Television News Production 3 Units Degree Applicable 54 hours lecture 18 hours lab Prerequisite: R-TV 05 or R-TV 11A or R-TV 19A Advisory: JOUR 111 TV newscasting using writing, announcing, production, direction, graphics, and editing skills both in and out of the studio. R-TV 21 — Remote Television Production and Engineering 3.5 Units | R-TV 33 — Radio Show Producer Techniques and Procedures 3 Units Degree Applicable 54 hours lecture (orequisite: R-TV 01 Covers the behind-the-scenes aspects of producing a radio show, with special emphasis on generating ideas for specific audiences, identifying and booking guests and preparing interviews for broadcast. R-TV 34 — On-Camera Performance 1.5 Units Degree Applicable |
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| responsibilities to their audiences are also discussed. R-TV 16 — Broadcast Career Preparation 3 Units Degree Applicable 54 hours lecture <i>Prerequisite: R-TV 11A or R-TV 19A</i> Students taking this class will prepare their audio and/or video demo tapes and resumes in order to obtain and maintain an entry-level job in the broadcast industry. Emphasis will be placed on employment searches, interview techniques, involvement in professional | 54 hours lecture 36 hours lab Prerequisite: R-TV 19A Students learn remote video production using both multi-camera and single camera techniques. Topics include video engineering, directing, and remote production truck setup. R-TV 22 — Editing for Film and Television 3 Units | 27 hours lecture Advisory: R-TV 01 On-camera techniques used in news and sports anchoring and reporting including make-up, hair, wardrobe and overall presentation. R-TV 97A — Radio/Entertainment Industry Seminar 1 Unit Degree Applicable (May be taken four times for credit) 18 hours lecture |
| organizations and business strategies. R-TV 17 — Internet Radio and Podcasting 3 Units Degree Applicable 54 hours lecture Corequisite: R-TV 01 and R-TV 11A (may have been taken previously) Covers all aspects of Internet broadcasting and podcasting including | 54 hours lecture Aesthetics and use of non-linear editing software for film and television. R-TV 26 — Current Issues in Entertainment Law Degree Applicable | Prerequisite: R-TV 01 and any other three R-TV units Corequisite: R-TV 97B A capstone class for students preparing for a career in the radio/entertainment industry. Students share and critique experiences emphasizing professionalism and problem-solving techniques related to their internship experience. Students who repeat this course will improve skills through further instruction and practice. |
| programming, announcing, promotions, and legal and copyright issues through the use of an actual Internet radio station. R-TV 18 — Writing for Television/Film 3 Units Degree Applicable, CSU 54 hours lecture <i>Advisory: R-TV 01</i> | 54 hours lecture Advisory: R-TV 01 or PLGL 30 Overview of the major legal and FCC regulatory issues facing broadcasting, cable and developing media. Also covers the growing importance of intellectual property law as it applies to digital media and the Internet. | R-TV 97B — Radio/Entertainment Industry Internship 1 Unit (May be taken four times for credit) Degree Applicable 75 hours lab Prerequisite: R-TV 01 and any other three R-TV units Corequisite: R-TV 97A Provides the student with on-the-job experience in the |
| Characterization, visualization, structure and form in various types of writing for television and motion picture production. R-TV 19A — Beginning Television Production Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture | R-TV 27 — Radio Drama 3 Units Degree Applicable 54 hours lecture <i>Prerequisite: R-TV 07</i> The practical and artistic skills needed for the performance of radio drama such as voicing, directing, writing and sound design combined with broadcasting history and communication theory. | radio/entertainment industry in order to strengthen and broaden his/her skills in the workplace. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. Students who repeat this course will improve skills through further instruction and practice. |
| 54 hours lab <i>Corequisite: R-TV 01 (may have been taken previously)</i> Basic video production using studio, remote multicamera, and film-style techniques. | R-TV 30 — Introduction to Careers in Entertainment 2 Units Not Degree Applicable 36 hours lecture An overview of broadcasting as a potential career. Examines the skills and training needed to work in radio, television and film in such areas | R-TV 97C — KSAK Radio/Internet Radio Internship 1 to 2 Units (May be taken four times for credit) Degree Applicable 75 to 150 hours lab Prerequisite: R-TV 11A Corequisite: R-TV 01 and R-TV 02 (may have been taken previously) |
| (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture 54 hours lab <i>Prerequisite: R-TV 19A</i> Advanced video production techniques emphasizing film-style aesthetics and production. | as D-J, news anchor/reporter, sports reporter, commercial voice-over artist, production director, writer, producer and director. R-TV 31 — History of Radio DJs 3 Units Degree Applicable 54 hours lecture Traces the history of music radio through study of the most influential disc jockeys in broadcasting history. | Regular and continuing experience in the operation of the College radio station or the college Internet station. Students may select roles involving on-air announcing, production, programming and news. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. It is recommended that the hours per week be equally distributed throughout the semester. Students who repeat this course will improve skills through further instruction and practice. |

| R-TV 98A — Television and Film/Entertainment 1 Unit | RADIOLOGIC TECHNOLOGY | RAD 52B — Techniques of Radiologic Technology 2.5 Units |
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| Industry Seminar Degree Applicable (May be taken four times for credit) 18 hours lecture <i>Prerequisite: R-TV 01 and R-TV 19A</i> <i>Corequisite: R-TV 98B</i> A capstone class for students preparing for a career in Television or Film Production. Students share and critique experiences emphasizing | RAD 30 — Radiographic Pathology 1.5 Units Degree Applicable 24 hours lecture 24 hours lecture 0 Corequisite: RAD 63 63 Advisory: RAD 64 0 Concepts of disease and pathological processes demonstrated in diagnostic radiography; etiology; diagnosis, and prognosis of systemic | Degree Applicable, CSU (May be taken for Pass/No Pass only) 140 hours lab <i>Prerequisite: RAD 52A</i> Continued application of radiographic theories and principles in a hospital setting under direct supervision of clinical personnel and college instructor. Emphasis on upper and lower limbs. |
| Production. Students sine and chique experiences emphasizing professionalism and problem-solving techniques related to their internship experience. Students who repeat this course will improve skills through further instruction and practice. R-TV 98B — Television and Film/Entertainment Industry Internship 1 Unit Degree Applicable (May be taken four times for credit) 75 hours lab Prerequisite: R-TV 01 and R-TV 19A | disease processes. RAD 31 — Fluoroscopy 2 Units Barbon Sector Degree Applicable 36 hours lecture Corequisite: RAD 64 Advisory: RAD 55B Components and characteristics of fluoroscopic systems including regulatory requirements for operation. Includes quality control and quality assurance systems relative to radiology. | RAD 53 — Techniques of Radiologic Technology 5 Units Degree Applicable, CSU (May be taken for Pass/No Pass only) 256 hours lab Prerequisite: RAD 52B Corequisite: RAD 62A Practical application of radiographic theories and principles in an affiliated hospital under direct supervision of clinical personnel and college instructors. Emphasis on abdominal and thoracic viscera, spine, common contrast exams, and generalized skull radiography. |
| Corequisite: R-TV 98AProvides the student with actual on-the-job experience in television orfilm production in order to strengthen and broaden his/her skills in theworkplace. A minimum of 75 paid or 60 non-paid clock hours persemester of supervised work is required for each unit of credit. It isrecommended that the hours per week be equally distributedthroughout the semester. Students who repeat this course will improveskills through further instruction and practice.R-TV 99 — Radio/TV Special Projects2 UnitsDegree Applicable | RAD 32 — Digital Imaging in Radiology 2 Units Degree Applicable 36 hours lecture Imparts an understanding of the components, principles and operation of digital imaging systems found in diagnostic radiology. Factors that impact image acquisition, display, archiving and retrieval discussed. Guidelines for selecting exposure factors and evaluating images within a digital system assist students to bridge between film-based and digital imaging systems. Principles of digital system quality assurance and maintenance presented. | RAD 54 — Techniques of Radiologic Technology 3 Units Degree Applicable, CSU (May be taken for Pass/No Pass only) 150 hours lab Prerequisite: RAD 62A Practical experience in a hospital setting under the supervision of clinical personnel and college instructors. Emphasis on skull, portable radiography, surgical studies and the development of nursing skills as it relates to radiologic technology. |
| (May be taken four times for credit) 36 hours lecture <i>Prerequisite: Completion of six R-TV units</i> To offer selected students recognition for their academic interests and ability and the opportunity to explore their disciplines to greater depth, the various departments from time to time offer Special Projects courses. The content of each course and the methods of study vary from semester to semester and depend on the particular project under consideration. Students repeating this course will make individual contracts of a more advanced nature with the instructor to ensure that proficiencies are enhanced. | RAD 50 — Radiologic Technology 3 Units Degree Applicable, CSU 54 hours lecture Prerequisite: Admission to the Radiologic Technology Program, Eligibility for MATH 71, and CHEM 10 Corequisite: RAD 91 Subjects related to the hospital environment: radiation protection, darkroom technique, general principles of x-ray production and production of the radiograph. Introduces the student to professional ethics and the legal considerations of health care. | RAD 55A — Techniques of Radiologic Technology 7 Units Degree Applicable, CSU (May be taken for Pass/No Pass only) 360 hours lab Corequisite: RAD 63 Practical experience in an affiliated hospital under guidance of clinical personnel and college instructors. Emphasis on cystograms, urethrograms, foreign body localization, tomography, and venography. RAD 55B — Techniques of Radiologic Technology 2.5 Units Degree Applicable, CSU |
| R-TV 100A — Work Experience in Film and Television 1 to 3 Units (May be taken four times for credit) Not Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 75 to 225 hours lab Prerequisite: Completion of 12 Television or Film course units or the equivalent. Compliance with Work Experience regulations as designated in the College Catalog. Provides students with on-the-job experience in the film or TV industry, related to classroom instruction, at an approved work site. A minimum of 60 unpaid or 75 paid hours of supervised work is required for each unit of credit. Students who repeat this course will improve skills through further experience. | RAD 52A — Techniques of Radiologic Technology 4.5 Units Degree Applicable, CSU (May be taken for Pass/No Pass only) 236 hours lab Corequisite: RAD 61A Practical application of radiographic theories and principles in a hospital setting under direct supervision of clinical personnel and college instructors. Emphasis on chest, upper and lower limbs, from digits to shoulder, from toes to knee, abdomen, and kidney, ureters, and bladder (KUB). | (May be taken for Pass/No Pass only) 140 hours lab <i>Prerequisite: RAD 55A</i> Continued experience in a hospital setting under guidance of clinical personnel and college instructors. Emphasis on E.R.C.P., sialogram, retrograde and other advanced procedures. |

| RAD 56 — Techniques of Radiologic Technology 7 Units Degree Applicable, CSU (May be taken for Pass/No Pass only) 380 hours lab Corequisite: RAD 64 Practical experience in an affiliated hospital under guidance of clinical personnel and college instructors. Emphasis on basic vascular procedures (angiograms), mammograms, tube placement, myelograms, arthrograms, and hysterosalpingograms. | RAD 62B — Radiographic Positioning 3 Units Degree Applicable, CSU 54 hours lecture 54 hours lecture 54 hours lecture Corequisite: RAD 62A Fundamentals of radiographic positioning of the abdomen, digestive and urinary systems, thorax, vertebral column, general cranial, facial and introduction to temporal bone radiography (mastoid and TMJ), to include radiologic anatomy, terminology, radiation protection, pediatrics and ethics. | READ 70 — Improving Reading Comprehension 3 Units Not Degree Applicable Not Degree Applicable (May be taken for Pass/No Pass only) 54 hours lecture 24 hours lab Prerequisite: Satisfactory score on appropriate placement test Introduction to reading, comprehension, and vocabulary strategies. Introduction to self-awareness of reading capabilities. READ 80 — Developing Reading Comprehension 3 Units |
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| RAD 57 — Techniques of Radiologic Technology 4 Units Degree Applicable, CSU (May be taken for Pass/No Pass only) 232 hours lab Prerequisite: RAD 64 Practical experience as a functioning member of an affiliated hospital under the guidance of clinical personnel and college instructors. Includes exploration of pararadiological imaging modalities and | RAD 62C — Radiologic Technology Seminar 1 Unit Degree Applicable, CSU 18 hours lecture 18 hours lab Corequisite: RAD 62A Advanced analysis of the technical performance of radiographic examination of the vertebral column, bony thorax, digestive system, urinary system, abdomen and general cranial radiography. | Not Degree Applicable (May be taken for Pass/No Pass only) 54 hours lecture 24 hours lab <i>Prerequisite: READ 70 or satisfactory score on reading placement test</i> Further development of reading comprehension and vocabulary strategies including self-awareness of reading capabilities. |
| venipuncture instruction. RAD 61A — Theory of Radiologic Technology 4 Units Degree Applicable, CSU 72 hours lecture Prerequisite: RAD 50, MEDI 90 Corequisite: RAD 52A, RAD 61B, RAD 61C Concepts of radiation, fundamentals of physics, the atom, | RAD 63 — Theory of Radiologic Technology 4 Units Degree Applicable, CSU 72 hours lecture Prerequisite: RAD 54 Corequisite: RAD 30 and RAD 55 Special radiographic studies, contrast media usage and radiographic pathology. Includes principles of radiation protection and radiobiology. | READ 90 — Preparing for College Reading 3 Units Not Degree Applicable (May be taken for Pass/No Pass only) 54 hours lecture Prerequisite: READ 80 or satisfactory score on reading placement test Prepares students for college textbook reading. Emphasizes understanding vocabulary and college level text analysis and comprehension. |
| electromagnetic radiation, electricity and magnetism, electromagnetism, the X-ray machine and fluoroscopic equipment and procedures. RAD 61B — Radiographic Positioning 3 Units Degree Applicable, CSU 54 hours lecture Fundamentals of radiographic positioning of the upper and lower | RAD 64 — Theory of Radiologic Technology 4 Units Degree Applicable, CSU 72 hours lecture Prerequisite: RAD 63 63 Corequisite: RAD 31 and RAD 56 An analytical review of the radiologic technology core courses. Serves as preparation for State Certification and National Registry Exams. | READ 100 — Analysis and Critical Reading 3 Units Degree Applicable, CSU 54 hours lecture Prerequisite: READ 90 or satisfactory score on reading placement test Effective use of critical reading in a cross-disciplinary framework. Emphasis on the development of critical reading skills of interpretation, analysis and evaluation of academic, business, and technology readings. |
| extremities, standard chest and abdomen; to include general radiologic anatomy, terminology, radiation protection, and ethics. RAD 61C — Radiologic Technology Seminar 1 Unit Degree Applicable, CSU 18 hours lecture 18 hours lab Analysis of the technical performance of producing radiographs of the chest, upper and lower extremities, and KUB. Documentation of radiographic exposure techniques. | RAD 91 — Nursing Procedures in Radiologic Technology 2 Units Degree Applicable, CSU 24 hours lecture 24 hours lab Corequisite: RAD 50 Nursing techniques and procedures; provides students with knowledge of proper patient care and management; includes patient transfer, disinfection and/or sterilization, isolation techniques, monitoring vital signs, common emergency situations and monitoring medical equipment. | READ 110 — Reading Tutoring for Elementary Students Through Service Learning 3 Units Not Degree Applicable 36 hours lecture 54 hours lab Advisory: Eligibility for ENGL 68 Fundamentals of reading comprehension, vocabulary development and phonics. Educational approaches include awareness of learning styles, motivation, levels of cognition and oral communication. Covers lesson |
| RAD 62A — Theory of Radiologic Technology4 Units Degree Applicable, CSU72 hours lecturePrerequisite: ANAT 10A, RAD 61A Corequisite: RAD 53, RAD 62B and RAD 62CAreas of X-ray production and interaction with matter, X-ray emissions, beam restricting devices, grids, film processing, screens, radiographic quality and special equipment/accessories and procedures. | READING READ 65 — Speed Reading: Methods and Applications 1 Unit Not Degree Applicable, CSU 18 hours lecture Designed to increase reading speed, while maintaining comprehension of college-level material. Improves concentration and recall. Develops flexibility in reading rate. | planning and the methodologies of presenting lessons. In coordination with local elementary schools, students reinforce learned concepts through on-site tutoring as a service learning experience. |

| RESD 50 — Theory and Principles of Respiratory Therapy 2 Units Degree Applicable, CSU 36 hours lecture Corequisite: RESD 51A and RESD 52 Properties of liquids, gases, kinetic theory of gases, units of measurements, gas laws, lung mechanics, flow of fluids, and pressure measuring devices used in respiratory therapy. RESD 51A — Respiratory Therapy Science 4 Units Degree Applicable, CSU S4 hours lecture 54 hours lecture 54 hours lab Corequisite: RESD 50 and RESD 52 Basic principles of respiratory therapy equipment. Emphasis placed on methods of administration of therapy and application of specialized equipment in the clinical setting. Basic respiratory physiology and oxygen transport. RESD 51B — Respiratory Therapy Science 4 Units Degree Applicable, CSU S4 hours lecture 54 hours lab Prerequisite: RESD 50 and RESD 51A Corequisite: RESD 50 and RESD 51A Corequisite: RESD 53 and RESD 60 Basic principles of respiratory therapy equipment will be presented. Emphasis is placed on the methods of administration of therapy and the application of specialized equipment in the acute care setting and the application of mechanical ventilation in the clinical setting. | first academic sessions of the Respiratory Therapy Program. Instruction in the application of therapeutic modalities and diagnostic procedures performed in the general management and treatment of adult and pediatric patients requiring respiratory care are introduced. RESD 56B — Techniques of Respiratory Therapy 6 Units Degree Applicable, CSU (May be taken for Pass/No Pass only) 384 hours lab | RESD 57A — Special Procedures for Respiratory Care 1.5 Units Degree Applicable, CSU 27 hours lecture Prerequisite: RESD 50 Corequisite: RESD 56A Topics in the basic application of and skills development in bronchoscopy, blood drawing and analysis, chest drainage, microbiology for respiratory care, IPPB, and blood gas data analysis. RESD 57B — Special Procedures for Respiratory Care 1.5 Units Degree Applicable, CSU 27 hours lecture Prerequisite: RESD 51B Corequisite: RESD 56A Basic application and skills development in respiratory pharmacology, bronchoscopy, and blood drawing and analysis. RESD 58 — Neonatal Intensive Care 3 Units Degree Applicable, CSU S4 hours lecture Corequisite: RESD 56B and RESD 55 Emphasizes neonatal pathophysiologies, etiologies, and ramifications. Encompasses the newest techniques in monitoring equipment used in the treatment and maintenance of the premature infant. Designed primarily for respiratory therapists and nurses. RES |
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| RESD 52 — Pulmonary Anatomy and Physiology3 Units Degree Applicable, CSU54 hours lecture Corequisite: RESD 50 and RESD 51AAnatomy and physiology of the cardiopulmonary, neurological and renal systems emphasizing clinical application of physiological concepts.RESD 53 — Cardiopulmonary Pathophysiology3 Units Degree Applicable, CSU54 hours lecture Corequisite: RESD 51B3 Units Degree Applicable, CSU54 hours lecture Corequisite: RESD 51B3 Units Degree Applicable, CSU55 — Adult Respiratory Intensive Care3 Units Degree Applicable, CSU54 hours lecture Corequisite: RESD 56B3 Units Degree Applicable, CSU55 Hours lecture Corequisite: RESD 56B3 Units Degree Applicable, CSU56 Solution3 Units Degree Applicable, CSU57 Solution3 Units Degree Applicable, CSU58 Solution </td <td>Degree Applicable, CSU (May be taken for Pass/No Pass only) 144 hours lab <i>Prerequisite: RESD 55</i> Clinical practice in the hospital setting. Continued practice of intensive care and mechanical ventilator procedures in the treatment of adult and pediatric patients. RESD 56D — Techniques of Respiratory Therapy 6 Units Degree Applicable, CSU (May be taken for Pass/No Pass only) 384 hours lab <i>Prerequisite: RESD 56C</i> <i>Coreauisite: RESD 59 and RESD 61</i></td> <td>Advanced practitioner skills development pertinent to the application and function of respiratory therapy equipment with emphasis on the machine-patient interface. RESD 60 — Comprehensive Pulmonary Assessment 2 Units Degree Applicable, CSU 36 hours lecture <i>Corequisite: RESD 51B and RESD 53</i> Techniques of pulmonary assessment including history taking, clinical laboratory data, pulmonary function testing data, chest X-rays, physician exam findings, arterial blood gas data, hemodynamic monitoring data, exhaled gas monitoring data, nutrition, and synopsis of findings; extensive practice in collecting and recording this data. RESD 61 — Current Issues in Respiratory Care 3 Units Degree Applicable, CSU (May be taken for Pass/No Pass only) 54 hours lecture <i>Corequisite: RESD 56D and RESD 59</i> Explores recently developed health care techniques and strategies for diagnostics, assessment, and therapeutics and their impact on respiratory therapists.</td> | Degree Applicable, CSU (May be taken for Pass/No Pass only) 144 hours lab <i>Prerequisite: RESD 55</i> Clinical practice in the hospital setting. Continued practice of intensive care and mechanical ventilator procedures in the treatment of adult and pediatric patients. RESD 56D — Techniques of Respiratory Therapy 6 Units Degree Applicable, CSU (May be taken for Pass/No Pass only) 384 hours lab <i>Prerequisite: RESD 56C</i> <i>Coreauisite: RESD 59 and RESD 61</i> | Advanced practitioner skills development pertinent to the application and function of respiratory therapy equipment with emphasis on the machine-patient interface. RESD 60 — Comprehensive Pulmonary Assessment 2 Units Degree Applicable, CSU 36 hours lecture <i>Corequisite: RESD 51B and RESD 53</i> Techniques of pulmonary assessment including history taking, clinical laboratory data, pulmonary function testing data, chest X-rays, physician exam findings, arterial blood gas data, hemodynamic monitoring data, exhaled gas monitoring data, nutrition, and synopsis of findings; extensive practice in collecting and recording this data. RESD 61 — Current Issues in Respiratory Care 3 Units Degree Applicable, CSU (May be taken for Pass/No Pass only) 54 hours lecture <i>Corequisite: RESD 56D and RESD 59</i> Explores recently developed health care techniques and strategies for diagnostics, assessment, and therapeutics and their impact on respiratory therapists. |

COURSE DESCRIPTIONS

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| SERVICE LEARNING | SIGN LANGUAGE, INTERPRETING | SIGN 108 — Fingerspelling 2 Units |
| SL 1 — Service Learning/Seminar for Health Occupations 6 Units Degree Applicable, CSU 36 hours lecture 216 hours lab Prepare students with service experiences in health occupations. | SIGN 99 — Special Projects in Sign Language/Interpreting 2 Units Degree Applicable (May be taken four times for credit) 36 hours lecture Prerequisite: SIGN 81 or SIGN 102 or equivalent signing ability | Degree Applicable (May be taken for Pass/No Pass only) 36 hours lecture <i>Prerequisite: SIGN 81 or SIGN 102</i> Skill development in receptive and expressive fingerspelling. |
| Examines and profiles community health care needs. Interfaces with various patient populations. Weekend and overnight labs to various areas within California may be offered. Out-of-class projects required. SL 2 Linked Service Learning 1 Unit Degree Applicable, CSU Degree Applicable, CSU | Offers students the opportunity to explore American Sign Language, American Deaf Culture or Sign Language Interpreting in greater depth. Content and methods of study vary from semester to semester and depend on the particular project under consideration.SIGN 101 — American Sign Language 14 Units | SIGN 201 — Deaf Perspectives 3 Units Degree Applicable 54 hours lecture Comprehensive study of Deaf people throughout their lives, including points of view from a variety of Deaf and hard-of-hearing people and |
| (May be taken for option of letter grade or Pass/No Pass) 54 hours lab Links service learning with content-specific courses across the college curriculum. Allows students to explore interests or career objectives through community involvement and service. Requires arranged hours of community-based activity. Must be enrolled concurrently in a course | 22 hours lecture Fundamentals of American Sign Language. Preparation for visual/gestural communication followed by intensive work on comprehension skills; modeling of grammatical structures; general information about Deaf Culture. | from their relatives, educators, and other professionals in the field. SIGN 202 — American Deaf Culture 3 Units Degree Applicable, CSU, UC 54 hours lecture American Deaf cultural norms, values, mores and institutions. |
| with a service learning Link. SL 3 — Service Learning/Seminar in Community Involvement 3 Units Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 18 hours lecture 108 hours lab | SIGN 102 — American Sign Language 2 4 Units Degree Applicable, CSU, UC 72 hours lecture Prerequisite: SIGN 80 or SIGN 101 or equivalent fluency Further study of fundamentals of American Sign Language focusing on comprehension skills, grammatical structures and practice in the | SIGN 210 — American Sign Language Structure 3 Units Degree Applicable, CSU, UC 54 hours lecture Prerequisite: SIGN 103 103 Linguistic structure of American Sign Language, including phonology, morphology and syntax. Sociolinguistic issues will also be discussed. |
| Examines and profiles community needs through service learning. Explores and allows students to directly interface with community populations. Permits students the opportunity to explore various career options through community service. Enriches personal and career development through understanding of civic and social issues. SL 4 — Service Learning and Community Involvement 1 Unit | expressive aspects of the language, as well as exposure to Deaf culture. SIGN 103 — American Sign Language 3 4 Units Degree Applicable, CSU, UC 72 hours lecture Prerequisite: SIGN 81 or SIGN 102 or equivalent fluency Further study of American Sign Language focused on developing | SIGN 220 — Translation: American Sign Language/English 3 Units Degree Applicable 54 hours lecture Prerequisite: SIGN 104 Corequisite: SIGN 210 American Sign Language and English translation by comparing texts in both languages. |
| Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 9 hours lecture 27 hours lab Examines and addresses community needs through service learning. Students directly interface with community populations to identify needs and implement activities. Permits exploration of service-oriented career options. Enriches personal and career development through understanding of civic and social issues. SL 99 — Special Projects in Service Learning 1 Unit Degree Applicable, CSU (May be taken for Pass/No Pass only) 36 hours lab In order to offer selected students recognition for their academic interests and ability and the opportunity to explore their disciplines to | comprehension skills, advanced grammatical structures with continued emphasis on expressive skills in narrative. Aspects of Deaf culture will be studied. SIGN 104 — American Sign Language 4 4 Units Degree Applicable, CSU, UC 72 hours lecture Prerequisite: SIGN 82A or SIGN 103 or equivalent fluency Emphasis on expressive/conversational skills in American Sign Language along with continued focus on grammatical and cultural features. SIGN 105 — American Sign Language 5 4 Units Degree Applicable 72 hours lecture Prerequisite: SIGN 82B or SIGN 104 Advanced American Sign Language communication skills with emphasis on signing descriptive narratives and strengthening conversational | SIGN 223 — Principles of Interpreting 3 Units Degree Applicable, CSU 54 hours lecture Prerequisite: SIGN 203, Eligibility for ENGL 1A Covers various aspects of interpreting theory and process including the history of sign language interpreting. Examines the interpreter's role and ethical standards. SIGN 225 — Ethical Decision Making for Interpreters 2 Units Not Degree Applicable 36 hours lecture Prerequisite: SIGN 223 Development of ethical decision-making skills through the analytical construct of the Demand/Control Schema for interpreting work. Topics include professional work effectiveness and professional wellness. |
| greater depth, from time to time various departments offer Special Projects courses. The content of each course and the methods of study vary from semester to semester and depend on the particular project under consideration. Student must have instructor's authorization before enrolling in this class. | skills. Target language practice includes holding discussions and making decisions. Further exposure to Deaf cultural components. | |

| SIGN 227 — Cognitive Processing for Interpr (May be taken for option of letter grade or Pas 54 hours lecture 54 hours lab The development of cognitive processing skills interpreting between ASL and English. Constru meaning, memory, listening and attending wil memory building, restating, cloze, and listening | Not Degree Applicable ss/No Pass) necessary for cting and deconstructing I be covered. Includes | SIGN 250 — Interpreting with Classifiers 1.5 Units Not Degree Applicable (May be taken for Pass/No Pass only) 18 hours lecture 27 hours lab An overview of the common forms of ASL classifier predicates. Developing skill in establishing figure/ground, visualization, and shifting perspectives. Applying classifier predicates within the context of interpreting from English into American Sign Language. | (CAN SOC04) Degree Applicable, CSU, UC 54 hours lecture <i>Prerequisite: Acceptance into the Honors Program</i> The application of basic sociological principles and concepts to the study and understanding of social problems. Special emphasis on the analysis of social values, social organization, role, status and stress, and also on the study of controversial public issues that arise in contemporary American society. Students will be encouraged to evaluate and discuss |
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| SIGN 231 — Interpreting 72 hours lecture <i>Prerequisite: SPCH 1A and SIGN 227</i> Skill development in interpreting from America to English and English to ASL, focusing on inte consecutive mode. Processing skills and task m emphasized. | rpreting in the nanagement will be | SIGN 260 — Video Interpreting 1.5 Units Not Degree Applicable (May be taken for Pass/No Pass only) 18 hours lecture 27 hours lab Video interpreting and skill development as a video interpreter. Includes video relay interpreting (VRS), video remote interpreting (VRI), technical components used in video interpreting, and ethical consideration of the video interpreter. Lab portion of the course will focus on skill | |
| SIGN 232 — Advanced Interpreting 54 hours lecture 54 hours lab <i>Prerequisite: SIGN 231</i> Refines basic interpreting skills with emphasis interpreting. Intensive skill development in inter American Sign Language (ASL) and ASL to Eng SIGN 238 — Oral Transliteration | erpreting from English to | development in video interpreting. SOCIOLOGY SOC 1 — Sociology 3 Units (CAN SOC02) Degree Applicable, CSU, UC 54 hours lecture Prerequisite: Eligibility for ENGL 68 A systematic study of human relations and social structures which emphasizes the interaction between personality, culture and society. Special consideration is given to an understanding of group behavior, | race, ethnicity, religion, stratification, and health care. Attention is given to gerontology as an academic discipline and a field of practice. SOC 5 — Introduction to Criminology 3 Units Degree Applicable (SULUC |
| 54 hours lecture Learn skills to facilitate communication for Dea people who use speechreading and speech to SIGN 239 — Practicum (May be taken for Pass/No Pass only) 54 hours lab <i>Prerequisite: SIGN 88B or SIGN 232</i> Develops and hones interpreting skills in super situations. | communicate. 1 Unit Degree Applicable | personality formation, social organization, and social change. SOC 1H — Sociology - Honors 3 Units (CAN SOC02) Degree Applicable, CSU, UC 54 hours lecture Prerequisite: Acceptance into the Honors Program A systematic study of human relations and social structures which emphasizes the interaction between personality, culture and society. Special consideration is given to an understanding of group behavior, personality formation, social organization, and social change. An honors course designed to provide an enriched experience. Students may not receive credit for both SOC 1 and SOC 1H. | SOC 5H — Introduction to Criminology - Honors 3 Units Degree Applicable, CSU, UC |
| SIGN 240 — Vocabulary Building for Interpresson (May be taken for Pass/No Pass only) 36 hours lecture <i>Prerequisite: SIGN 104</i> Vocabulary expansion in both ASL and English improving interpretations between these two focus on context, semantics, and parts of speed culturally appropriate vocabulary choices. Inter learn to apply their growing vocabularies to AS | lot Degree Applicable, CSU with the goal of languages. The course will ch in determining preting students will | SOC 2 — Sociology3 Units(CAN SOC04)Degree Applicable, CSU, UC54 hours lectureAdvisory: Eligibility for ENGL 68The application of basic sociological principles and concepts to the study and understanding of social problems. Special emphasis on the analysis of social values, social organization, role, status and stress, and also on the study of controversial public issues that arise in contemporary American society. Students will be encouraged to evaluate and discuss both the theoretical and practical approaches to social problems. Individual student projects will be undertaken. | |

| SOC 14 — Marriage and the Family3 Units(CAN FCS12)Degree Applicable, CSU, UC54 hours lecturePrerequisite: Eligibility for ENGL 68Explores the sociological and psychological functions of dating, engagement, weddings, marriage, and the family. Focuses on influences and theories of mate selection, love, and interpersonal attraction. Covers trends and changes in marriage and the family and gender roles.Explores different types of families and family patterns. Covers factors leading to divorce and influences on the divorce rate, remarriage rate, | SOC 99 — Special Projects in Sociology2 Units Degree Applicable, CSU(May be taken four times for credit)36 hours lecture36 hours lectureOffers students recognition for their academic interests and ability and the opportunity to explore their disciplines to greater depth, the various departments from time to time offer Special Projects courses. The content of each course and the methods of study vary from semester to semester and depend on the particular project under consideration. Students repeating this course will make individual contracts of a more | SPAN 5 — Advanced Spanish4 Units Degree Applicable, CSU, UC(May be taken for option of letter grade or Pass/No Pass)72 hours lecturePrerequisite: SPAN 4 or equivalentEmphasis is placed on increased proficiency in speaking, reading and writing Spanish. Cultural insights are developed through videos, movies and readings in Hispanic culture through different literary genres.SPAN 6 — Continuing Advanced Spanish4 Units |
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| and step-families. Explores family life-cycle adjustments including parenthood, mid-life, grandparenthood, and widowhood. Analyzes characteristics of "successful" marriages and families. SOC 15 — Child Development 3 Units Degree Applicable, CSU, UC 54 hours lecture Theoretical aspects of physical, social, emotional and cognitive | Statement repeating this course will make individual contracts of a more advanced nature with the instructor to ensure that proficiencies are enhanced. SPANISH SPANISH SPAN 1 — Elementary Spanish (CAN SPAN02) Degree Applicable, CSU, UC CAN SPAN SEQ A 72 hours lecture | Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 72 hours lecture <i>Prerequisite: SPAN 5 or equivalent</i> Advanced reading, discussing and writing in Spanish designed to provide further cultural insights into the Hispanic world through the study of cultural and literary readings. High level of proficiency in Spanish will be emphasized. |
| development from conception through adulthood. Requires observation of children. SOC 20 — Sociology of Ethnic Relations 3 Units Degree Applicable, CSU, UC 54 hours lecture Provides insight to the culture diversity that exists in the United States. An extensive study of four major ethnic groups (Blacks, Asians, Native Americans, and Latinos) is provided with emphasis placed on historical experiences, contemporary circumstances and future trends. Origins and theories of stereotypes, prejudices and discrimination are explored along with an analysis of racial stratification. SOC 20H — Sociology of Ethnic Relations - Honors 3 Units | Development of the ability to converse, read and write in Spanish. Includes essentials of pronunciation, vocabulary, idioms and grammatical structures along with an introduction to Hispanic culture. Intended for students without previous exposure to Spanish. SPAN 2 — Continuing Elementary Spanish 4 Units (CAN SPAN04) Degree Applicable, CSU, UC CAN SPAN SEQ A 72 hours lecture <i>Prerequisite: SPAN 1 or equivalent</i> Further development of conversational, reading and writing skills in Spanish with special emphasis on verbs, grammar and expansion of vocabulary. Further study of Hispanic culture. | SPAN 11 — Spanish for the Spanish Speaking4 Units Degree Applicable, CSU, UC72 hours lectureProvides Spanish-speaking students without previous formal study of Spanish with the basis to improve skills in standard Spanish and to broaden their understanding of Hispanic cultures. Focuses on developing vocabulary, improving orthography and the use of grammatical structures, both oral and written. Class instruction conducted in Spanish.SPAN 12 — Continuing Spanish for the Spanish Speaking Degree Applicable, CSU, UC72 hours lecture |
| Degree Applicable, CSU, UC 54 hours lecture <i>Prerequisite: Acceptance into the Honors Program</i> Provides insight to the culture diversity that exists in the United States. An extensive study of four major ethnic groups (Blacks, Asians, Native Americans, and Latinos) is provided with emphasis placed on historical experiences, contemporary circumstances and future trends. Origins and theories of stereotypes, prejudices and discrimination are explored along with an analysis of racial stratification. An honors course designed to provide an enriched experience. Students may not receive credit for both SOC 20 and SOC 20H. | SPAN 3 — Intermediate Spanish4 Units(CAN SPAN08)Degree Applicable, CSU, UCCAN SPAN SEQ B(May be taken for option of letter grade or Pass/No Pass)72 hours lecturePrerequisite: SPAN 2 or equivalentFurther development of communicative proficiency in Spanish. Further study and review of grammar. Increasing emphasis on reading and writing as tools in exploring Hispanic civilization.SPAN 4 — Continuing Intermediate Spanish4 Units(CAN SPAN10)Degree Applicable, CSU, UCCAN SPAN SEQ B(May be taken for option of letter grade or Pass/No Pass)72 hours lecturePrerequisite: SPAN 3 or equivalentEmphasis on increased proficiency in speaking, reading and writingSpanish. Review of grammar, increased vocabulary building. Readings and discussions on Hispanic cultural topics. Introduction to Hispanic literature. | Prerequisite: SPAN 11 or equivalent Provides Spanish-speaking students with previous formal study of Spanish with further development and improvement of skills in standard Spanish and a broader understanding of Hispanic cultures. Culturally-based topics are the focus of readings and class discussions. Class instruction conducted in Spanish. SPAN 25 — Spanish Literature 3 Units Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture Prerequisite: SPAN 4 or equivalent Introduction to the literatures of Mexico, other Spanish-American countries and Spain. All reading and lectures are in Spanish. |

| SPAN 40 — Intermediate Spanish for Health Professionals 4 Units Not Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 72 hours lecture Prerequisite: SPAN 2 or equivalent Intermediate level Spanish for health care professionals emphasizing speaking, oral comprehension and cross-cultural communication within a health care setting. Includes the study of vocabulary, grammar, spoken and written language in context, and Hispanic culture in the U.S. especially as it relates to health care issues. | SPCH 1B — Intermediate Public Speaking Degree Applicable, CSU, UCSPCH 7H — Intercultural Communication Honors Degree Applicable, CSU, UC54 hours lecture Prerequisite: SPCH 1A or SPCH 1AH Practice in extemporaneous speaking with stress on organization and delivery. Analyze, synthesize, criticize and advocate ideas, using inductive and deductive reasoning, distinguishing fact from opinion and avoiding fallacies of language and logic as critical thinkers both as alert members of an audience and as perceptive public speakers.SPCH 7H — Intercultural Communication Honors Degree Applicable, CSU, UC Degree Applicable, CSU, UC S4 hours lecture Prerequisite: Admittance into the Honors Program Theoretical dynamics of culture within communication conter practical exploration into improving intercultural communication competence for more effective interactions with others in a society. An honors course designed to provide an enriched exist Students may not receive credit for both SPCH 7 and SPCH 7 | |
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| SPAN 53 — Conversational Spanish 3 Units Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture Prerequisite: SPAN 2 or equivalent Development of intermediate Spanish conversational skills. Emphasis on collaborative activities and practical use of the language. Extensive exposure to Hispanic culture. Grammar is presented in context. SPAN 54 — Continuing Conversational Spanish 3 Units | SPCH 3 — Voice and Diction3 Units Degree Applicable, CSU, UC(May be taken for option of letter grade or Pass/No Pass)54 hours lectureImprovement of the speaking voice and oral communication style, including proper use for control and projection of the voice, vocal expressiveness, articulation and pronunciation. Develops accuracy of sound production for standard American speech through use of the International Phonetic Alphabet. Emphasizes individual diagnosis and extensive oral practice. | SPCH 10 — Speech Enhancement 1 Unit Degree Applicable, CSU 18 hours lecture Corequisite: SPCH 1A Provides hands-on research, outlining, and anxiety reduction activities designed to enhance student success as a linked course with the basic public speaking course. SPCH 15 — Forensics: Contest Speech and Debate 2 Units Degree Applicable, CSU (May be taken four times for credit) |
| Continuing conversational spansit Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture Prerequisite: SPAN 53 Development of advanced Spanish conversational skills. Emphasis on collaborative activities and practical use of the language. Extensive exposure to Hispanic culture. Grammar is presented in context. SPEECH | SPCH 4 — Oral Interpretation of Literature 3 Units Degree Applicable, CSU, UC 54 hours lecture Develops an appreciation of various genres of literature through textual analysis, oral reading, and evaluation. Practical training is given in critical reading, editing, and performance of poetry, prose, drama, essay and experimental forms of performance text. SPCH 5 — Readers Theater 3 Units | 18 hours lecture 54 hours lab Advisory: SPCH 1A or SPCH 1AH Participation in intercollegiate speech tournaments through Mt. SAC Forensics Team. Instructions in preparatory procedures for these tournaments, including techniques in persuasive oratory, extempore, interpretation, expository, impromptu, discussion, speech analysis, debate. Student has option to choose area of interest and also an opportunity to participate in public community programs. Attendance |
| SPCH 1A — Public Speaking3 Units(CAN SPCH04)Degree Applicable, CSU, UC54 hours lecturePrerequisite: Eligibility for ENGL 68Study and apply rhetorical principles to research and analyze topics, organize sentence outlines, and deliver effective public speeches. Perform speaking and listening assignments that utilize effective verbal, vocal and physical communicative strategies, and critical/analytical techniques. Students may not receive credit for both SPCH 1A and SPCH 1AH. | Degree Applicable, CSU, UC 54 hours lecture Prerequisite: SPCH 1A or SPCH 1AH or SPCH 4 Theory, principles, and techniques of the interpretation of literature in the medium of readers theater. There is programming and presentation of prose, poetry and drama by an ensemble of readers. Emphasis is placed on experimental presentations and on the development of analytical insight into literary forms. SPCH 6 — Small Group Communication (CAN SPCH10) 3 Units | required at one competition. Students who repeat this course will improve skills through further instruction and practice. SPCH 16 — Forensics: Individual Team Event 2 Units Degree Applicable, CSU (May be taken four times for credit) 108 hours lab <i>Corequisite: SPCH 15</i> Students develop speech performance skills and participate in multiple intercollegiate speaking competitions, festivals, and/or public events as members of the Mt. SAC Forensics Team. Emphasis is on individual speaking |
| SPCH 1AH — Public Speaking - Honors3 Units(CAN SPCH04)Degree Applicable, CSU, UC54 hours lecturePrerequisite: Acceptance into the Honors ProgramStudy and apply rhetorical principles to research and analyze topics, organize sentence outlines, and deliver effective public speeches.Perform speaking and listening assignments that utilize effective verbal, vocal, and physical communicative strategies and critical/ analytical techniques. An honors course designed to provide an enriched experience. Students may not receive credit for both SPCH 1A and SPCH 1AH. | 54 hours lecture Principles of communication in a variety of small group contexts. Theory, application and evaluation of group communication processes, including problem-solving, conflict management, decision making, and leadership. SPCH 7 — Intercultural Communication 3 Units Degree Applicable, CSU 54 hours lecture Theoretical dynamics of culture within communication contexts, and a practical exploration into improving intercultural communication competence for more effective interactions with others in a diverse society. Students may not receive credit for both SPCH 7 and SPCH 7H. | events, including public address and oral interpretation of literature along with receiving critiques from judges and utilizing directed self-study. Students who repeat this course will improve skills through further instruction and practice. Public or tournament performance required. |

| Course Descriptions | |
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| SPCH 17 — Forensics: Debate Team | |
| (May be taken four times for credit) 108 hours lab | Degree A |
| <i>Corequisite: SPCH 15</i> Students develop speaking and argumentation | skills and p |
| multiple inter-collegiate speaking competitions, events as members of the Mt. SAC Forensics Tea parliamentary debate and extemporaneous spe repeat this course will improve skills through fu practice. Public or tournament performance req | m. Emphas aking. Stud rther instru |
| SPCH 18 — Forensics: Readers Theater Team | Degree A |

(May be taken four times for credit) 108 hours lab Corequisite: SPCH 15 Students develop speech performance skills and participat intercollegiate speaking competitions, festivals, and/or pub

members of the Mt. SAC Forensics Team. Students will per more Reader?s Theater pieces. Students who repeat this co improve skills through further instruction and practice. Pul tournament performance required.

SPCH 20 — Argumentation and Debate (CAN SPCH06) Degree Appl 54 hours lecture *Prerequisite: SPCH 1A or SPCH 1AH or equivalent* Equips the student to engage in rational discussion and re advocacy. Emphasis is given to rhetorical principles of argu both theory and practice.

| \ensuremath{SPCH} 20H — Argumentation and Debate - | | |
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| (CAN SPCH06) 54 hours lecture | Degree Applicable, CSU, UC | STDY |
| Prerequisite: SPCH 1A or SPCH 1AH and accept Program Equips the student to engage in rational disc advocacy. Emphasis is given to rhetorical prin both theory and practice. An honors course d enriched experience. Students may not receiv and SPCH 20H. | cussion and reasoned nciples of argumentation, lesigned to provide an | (May 54 h Advis Provi awar man comr |
| SPCH 26 — Interpersonal Communication (CAN SPCH08) 54 hours lecture <i>Prerequisite: Eligibility for ENGL 68</i> | 3 Units Degree Applicable, CSU, UC | and stray |

Prerequisite: Eligibility for ENGL 68 Principles of verbal and nonverbal transactions that occur face-to-face communication. Study of theory and research their application to communication in professional and per relationships.

| 2 Units Degree Applicable, CSU | SPCH 26H — Interpersonal Communication - Honors 3 Units (CAN SPCH08) Degree Applicable, CSU, UC 54 hours lecture | STDY 85B — Notetaking and Listening 1 Unit Not Degree Applicable |
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| skills and participate in , festivals, and/or public am. Emphasis is on aking. Students who | Prerequisite: Acceptance into the Honors Program Principles of verbal and non-verbal transactions that occur in everyday face-to-face communication. Study of theory and research findings and their application to communication in professional and personal relationships. An honors course designed to provide an enriched experience. Students may not receive credit for both SPCH 26 and SPCH | Advisory: Eligibility for ENGL 67 A single purpose course designed to support learning in either an academic field or in a vocation. Provides awareness of how the brain functions and applications of that knowledge to notetaking and effective listening strategies. |
| irther instruction and uired. | 26H. | STDY 85C — Study Techniques and Skills for Online Learning 1 Unit Not Degree Applicable |
| 2 Units Degree Applicable, CSU | SPCH 68 — Preparation for Public Speaking 3 Units Degree Applicable 54 hours lecture Advisory: ENGL 67 or AMLA 43W or eligibility for ENGL 68 Preparation for college level public speaking. Emphasis on outlining, research skills, organization of ideas, and management of speech available includes multiple conclusion and annipple reduction activities | 18 hours lecture Advisory: Eligibility for ENGL 67 A single purpose course designed to support learning in either an academic field or in a vocation. Focuses on skills for successful online learning and prepares students to take online classes and learn about effective online communication tools. |
| d participate in multiple and/or public events as nts will perform in one or peat this course will practice. Public or | anxiety. Includes multiple speaking and anxiety reduction activities. SPCH 99 — Special Projects in Speech Degree Applicable, CSU (May be taken four times for credit) 36 hours lecture | STDY 85D — Goal Setting and Time Management 1 Unit Not Degree Applicable 18 hours lecture Advisory: Eligibility for ENGL 67 A single purpose course designed to support learning in either an |
| 3 Units egree Applicable, CSU, UC | To offer selected students recognition for their academic interests and ability and the opportunity to explore their disciplines to greater depth, the various departments from time to time offer Special Projects courses. The content of each course and the methods of study vary from | academic field or in a vocation. Provides support in understanding how the brain functions and applying that knowledge to goal setting and time management strategies. |
| sion and reasoned oles of argumentation, | semester to semester and depend on the particular project under consideration. Students repeating this course will make individual contracts of a more advanced nature with the instructor to ensure that proficiencies are enhanced. | STDY 85E — Memory and Concentration 1 Unit Not Degree Applicable 18 hours lecture Advisory: Eligibility for ENGL 67 A single purpose course designed to support learning in either an |
| egree Applicable, CSU, UC | STUDY TECHNIQUES STDY 80 — Studying and Learning: Foundations for Success 3 Units | academic field or in a vocation. Provides support rearining in enter an the brain functions and applying that knowledge to memory and concentration strategies. |
| ce into the Honors | (May be taken for Pass/No Pass only) Not Degree Applicable | STDY 100 — Student Achievement and Fundamentals 3 Units |
| sion and reasoned oles of argumentation, igned to provide an credit for both SPCH 20 | 54 hours lecture Advisory: Eligibility for ENGL 67 or READ 80 Provides a foundation for life-long learning that promotes greater self- awareness and success. Academic success strategies include text management, time management, listening, note taking, oral and written communication, test- taking, memorization, use of campus resources, and memory and the second sec | of Learning Degree Applicable, CSU 54 hours lecture Advisory: Eligibility for ENGL 68 or READ 100 Designed to increase student success in transfer college level courses. Provides a systematic approach to advanced study techniques for academic success in higher education. Develops the steps leading to |
| 3 Units egree Applicable, CSU, UC | and research methods. STDY 85A — Test-Taking and Stress Management 1 Unit Not Degree Applicable | successful transfer/transition to four-year institutions or careers. |
| that occur in everyday Id research findings and nal and personal | 18 hours lecture Advisory: Eligibility for ENGL 67 A single purpose course designed to support learning in either an academic field or in a vocation. Provides support in understanding how the having functions and applying that knowledge to tot tot taking and | |

the brain functions and applying that knowledge to test-taking and

stress management strategies.

| | | course Descriptions |
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| SURVEYING SURV 1A — Surveying 3 Units (CAN ENGR10) Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture 54 hours lab Prerequisite: MATH 150 Surveying fundamentals; use and care of surveying instruments including steel tape, engineer's level, theodolite and total station; horizontal and vertical measurements; layout, traverse, area computations; analysis and adjustments of systematic and random errors; stadia surveying; mapping. | THTR 11 — Principles of Acting I3 Units(CAN DRAM08)Degree Applicable, CSU, UC54 hours lectureIntroduction to the basic principles and techniques of acting as an artistic discipline. Analysis of the plot, characterization and language of the drama. Performances of laboratory scenes, readings and exercises.THTR 12 — Principles of Acting II3 Units (CAN DRAM22)CAN DRAM22)Degree Applicable, CSU, UC54 hours lecturePrerequisite: THTR 11 Advanced study of principles presented in DRMA 11. An investigation of acting techniques through the study and presentation of varied dramatic scenes. | THTR 18 — Technical Theater Practicum1 Unit Degree Applicable, CSU, UC(May be taken four times for credit)(May be taken for option of letter grade or Pass/No Pass)54 hours labParticipation in the technical preparation and operation of productions presented to the community. The student will be involved in one or more of the following areas: stage scenery construction, stage lighting set up, property construction, stage sound set up, costume construction and make-up. Crew assignments will be given to the student upon enrollment. The availability of assignments is contingent upon the requirements of the production. Students who repeat this course will improve skills through further instruction and practice. |
| SURV 1B — Surveying3 UnitsDegree Applicable, CSU, UC(May be taken for option of letter grade or Pass/No Pass)36 hours lecture54 hours labPrerequisite: SURV 1AConstruction surveying; volumes; property surveying; control surveys;California coordinate system; horizontal and vertical curves; introductionto electronic, photogrammetric, and G.I.S. methods; mapping project;introduction to the method of least squares; land survey descriptions;astronomical observations. | THTR 14 — Stagecraft 3 Units (CAN DRAM12) Degree Applicable, CSU, UC (May be taken two times for credit) 36 hours lecture 36 hours lecture 54 hours lab Theory and practice of stage design and lighting. Practical work in scene design and construction and lighting layouts, with the opportunity to perform these tasks in actual theatre situations. By virtue of the wide range of productions staged by the department, students who repeat this course will increase their skills and proficiency. | THTR 24 — Introduction to Theatrical Design3 Units Degree Applicable, CSU36 hours lecture54 hours lab54 hours labPrerequisite: THTR 14Sketching and a variety of media techniques for scenic design for theatre arts. Development of a scenic floor plan, elevations and rendering. Application of basic techniques of drawingand drafting theatrical scenery. Color theory, research, design concept and design process to be studied in depth. |
| TECHNOLOGY-RELATED COURSES TECH 60 — Customer Relations for the Technician 1 Unit Degree Applicable (May be taken for Pass/No Pass only) 18 hours lecture Customer relations (soft skills) for the technician including benefits of knowing and using effective customer contact tools, proper customer interactions, ethics, and maintaining customer satisfaction. | THTR 15 — Play Rehearsal and Performance 2 Units (CAN DRAM16) Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 108 hours lab Participation under faculty supervision in the planning, preparation and presentation of college-sponsored dramatic presentations. Emphasis on acting with some technical theatre assignments. Students who repeat | THTR 25 — Theatrical Playwriting 3 Units Degree Applicable, CSU 54 hours lecture Advisory: Eligibility for ENGL 1A Playwriting for the stage. Students will create and critique their own plays, as well as study and critique plays from well known authors and productions. Includes basics of linear broken linear, episodic, 'A'-'B' and ritual structures. THTR 60 Children's Theatre |
| THEATER ARTSTHTR 9 — Introduction to Theatre Arts3 Units(CAN DRAM18)Degree Applicable, CSU, UC54 hours lectureA comprehensive introduction to the theater, including the aesthetic, artistic, technical, and business aspects.THTR 10 — History of Theatre Arts3 Units | this course will improve skills through further instruction and practice. THTR 16 — Theatrical Make-Up (CAN DRAM14) Degree Applicable, CSU, UC 36 hours lecture 36 hours lab An introduction to the theory and practice of make-up for the stage. The student will gain practice in the design and application of straight, stylized character, and other make-up techniques. TUTE 17 — Arting for Talentician | THTR 60 — Children's Theatre3 Units Degree Applicable, CSU(May be taken four times for credit)(May be taken for option of letter grade or Pass/No Pass)36 hours lecture72 hours labTheory and practice of children's theater. Evaluates play production techniques and literature for an audience of children. Includes analysis of plays for children and actual experience in acting, and producing children's plays for public presentation. Students who repeat this course will improve |
| Degree Applicable, CSU, UC 54 hours lecture <i>Prerequisite: Eligibility for ENGL 1A</i> Designed to present an appreciative background to dramatic literature and to the development of dramatic art. Representative plays and the history and development of the living stage will be stressed. | THTR 17 — Acting for Television3 Units Degree Applicable, CSU, UC54 hours lecturePrerequisite: THTR 11Assists students to prepare for an occupation in the performing areas of television and film. Background, methodology and techniques of acting for the camera. Includes TV equipment and how to make it work for the TV actor; study of image, type and character with practical exercises and scenes in various styles such as TV drama, sit-coms, news, commercials. | |

| THTR 99 — Special Projects in Theatre 2 Units Degree Applicable, CSU | TUTR 10C — Tutoring as a Supplemental Instructor 1 Unit Not Degree Applicable | WATR 62 — Water Distribution 3 Units Degree Applicable |
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| (May be taken four times for credit) 36 hours lecture To offer selected students recognition for their academic interests and ability and the opportunity to explore their disciplines in greater depth, the various departments from time to time offer Special Projects courses. The content of each course and the methods of study vary from | (May be taken for Pass/No Pass only) 18 hours lecture <i>Prerequisite: Eligibility for ENGL 1A</i> Tutoring as a Supplemental Instructor with an emphasis on tutoring in the classroom and in small groups under the supervision of a designated instructor. | 54 hours lecture Advisory: WATR 60 taken prior Water distribution systems operation, administration, safety, maintenance, introduction to Cross-connection Control Title 17. Prepares student for Grade II and III AWWA Distribution Operator Certification. |
| semester to semester and depend on the particular project under consideration. Students repeating this course will make individual contracts of a more advanced nature with the instructor to ensure that proficiencies are enhanced. TRAN 17 — Air Transportation 3 Units Degree Applicable, CSU 54 hours lecture | TUTR 10D — Tutoring in Mathematics 1 Unit Not Degree Applicable (May be taken for Pass/No Pass only) 18 hours lecture Prerequisite: MATH 71 or higher Tutoring in mathematics with an emphasis on strategies to promote active learning using manipulatives and dealing with specific obstacles in developmental algebra. | WATR 63 — Cross Connection Control - Certified Tester 3 Units Degree Applicable 54 hours lecture <i>Advisory: WATR 60 taken prior or concurrently</i> Offers knowledge necessary to understand the operation of and testing procedures for backflow prevention assemblies. Analyzes Title 17 of the California Administrative Code and Chapter 6 of the Uniform Plumbing Code as they relate to cross-connection control. Prepares students for County Health Department and AWWA certification as Backflow Prevention Device Testers. |
| Advisory: AERO 23 A survey course of the air transportation industry. Topics include a historical perspective, regulators and associations, general aviation industry, airline industry, economic characteristics of the airlines, airline management, air cargo, airline labor relations, international aviation, and aviation career planning. | TUTR 10R — Tutoring in Reading 1 Unit Not Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 18 hours lecture Advisory: Eligibility for READ 100 Introduction to tutoring reading. Includes methods of assessment, management of coscings, and application of strategic reading processes | WATR 64 — Cross Connection Control - Certified Specialist 3 Units Degree Applicable 54 hours lecture Advisory: WATR 60 taken prior Offers knowledge necessary to apply the principles of backflow |
| TRAN 19 — Air Law and Regulation 2 Units Degree Applicable 36 hours lecture Develops a basic understanding of the legal environment surrounding aviation, the fundamentals of the U.S. legal system, and the impact of the | management of sessions, and application of strategic reading processes. This course prepares students to become reading tutors for all READ students. WATER TECHNOLOGY WATR 60 — Introduction to Water Systems 3 Units | prevention, as outlined in Title 17 of the California Administrative Code, to the administration of a cross-connection control program. Also teaches a student about the use of recycled water as outlined in Title 22 of the California Administrative Code. Prepares students who are otherwise qualified to take the AWWA Cross-Connection Specialist Certification Exam. |
| U.S. constitution on aviation activities. Topics include criminal law for aviators and air carriers, tort liability and air commerce, government regulations, contract and commercial law in aviation related businesses, property law for aircraft owners and airport operators, labor and employment law in aviation industries, international law and treaties that affect aviation. TUTOR TRAINING | Degree Applicable 54 hours lecture Water sources, hydrological cycle, pre-treatment, water mathematics, basic water chemistry, treatment plant processes, safety, disinfection, corrosion, bacteriology and the public health aspects of potable water. Distribution systems, wells, valves and pumps. Prepares the student for Grade I and II State Water Treatment Operator Certification and Grade I | WATR 65 — Water Hydraulics and Instrumentation 3 Units Degree Applicable 54 hours lecture Advisory: WATR 60 taken prior Practical water supply hydraulics and instrumentation, with emphasis on distribution system capacity, hydraulic analysis, pumping analysis, customer service lines and meters, automation, instrumentation and |
| TUTR 10A — Introduction to Tutoring 1 Unit Not Degree Applicable (May be taken for Pass/No Pass only) 18 hours lecture | AWWA Water Distribution Operator Certification. WATR 61 — Water Treatment 3 Units Degree Applicable | control, system maintenance and records. WELDING |
| Prerequisite: Eligibility for ENGL 1A Introduction to tutoring, with an emphasis on tutoring strategies, problem solving, and working with a diverse student population. | 54 hours lecture Advisory: WATR 60 taken prior Emphasizes public health aspects of potable water supply, wells, process control procedures, chlorination systems, water softening, safety, review | WELD 30 — Metal Sculpture 2 Units Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 18 hours lecture 18 |
| TUTR 10B — Tutoring in the English Language 1 Unit Not Degree Applicable (May be taken for Pass/No Pass only) 18 hours lecture Prerequisite: Eligibility for ENGL 1A Tutoring in the English language with an emphasis on approaches to working with students on written drafts and addressing the needs of non-native speakers. | laboratory procedures, laboratory techniques and equipment, advanced water mathematics and State Health Department Title 22, Water Quality Standards. Prepares students for the Grade II and III State Water Treatment Operator Certification. | 54 hours lab For students interested in art seeking the proper operation of welding processes related to the sculpting industry. Emphasizes the fundamentals of three-dimensional design. Includes demonstrations and exercises in welding as it relates to the art industry. |

| WELD 40 — Introduction to Welding 2 Units | | |
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| Degree Applicable, CSU 18 hours lecture 54 hours lab Fundamentals of welding processes related to the areas of fabrication, construction, machine tool, aerospace and the transportation industries. WELD 50 — Oxyacetylene Welding 2 Units Degree Applicable 18 hours lecture 54 hours lab | Degree Applicable 18 hours lecture 108 hours lab Advisory: WELD 70A taken prior A continuation of Beginning Arc Welding (WELD 70A). Emphasis is on welding high alloy steel with both SMAW and FCAW processes in the vertical and overhead positions. Designed to refine previously acquired welding skills. WELD 70C — Certification for Welders 3 Units | WELD 90B — Semiautomatic Arc Welding Process 3 Units Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 18 hours lecture 108 hours lab Advisory: WELD 70B taken prior An integrated review of Semiautomatic Welding Processes including Gas Metal Arc Welding (GMAW), Flux Cored Arc Welding (FCAW), Submerged Arc Welding (SAW) with solid and tubular wires with and without gas shielding. All position welds with many varying thickness will be covered. |
| Oxyacetylene fusion welding, non-fusion welding and cutting. Develops understanding of and fundamental skills in modern welding practices. WELD 51 — Basic Electric Arc Welding 2 Units Degree Applicable 18 hours lecture 54 hours lab Advisory: WELD 50 | Degree Applicable 18 hours lecture 108 hours lab <i>Advisory: WELD 70A taken prior</i> Study of building construction for the advanced arc welding student. Special emphasis will be placed on welding symbols and the American | WELD 91 — Automotive Welding, Cutting and Modification 3 Units Not Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 18 hours lecture 108 hours lab Advisory: WELD 70B taken prior |
| Basic electric arc welding, weld symbols, standard electrode and alloy electrode selection, American Welding Society (A.W.S.) procedure for certification. WELD 53A — Welding Metallurgy 3 Units | 18 hours lecture 108 hours lab Advisory: WELD 40 WELD 51 WELD 704 | Instruction in the art of welding and cutting on metals commonly used in the automotive industry. Gas Metal Arc (MIG), Gas Tungsten Arc (GTAW), Plasma Arc cutting and oxyfuel cutting and welding will be covered. WELD 96 — Work Experience in Welding 1 to 4 Units |
| Degree Applicable, CSU 54 hours lecture Designed for students seeking a career in welding and welding inspection. Covers structure of matter, chemical, physical, and mechanical properties of metals, principles of alloying, solid state diffusion, plastic deformation, and heat treatment. | Hadvisory. WELD 40, WELD 51, WELD 70ATheory and practical applications of welding used in industry and construction. Designed to adapt and upgrade skills to industry standards. Includes project models such as ornamental iron gates and fences and material storage components.WELD 81 — Pipe and Tube Welding3 Units | WELD 96 — Work Experience in Weiding Degree Applicable (May be taken four times for credit) (May be taken for Pass/No Pass only) 75 to 300 hours lab Prerequisite: Compliance with work experience regulations as designated in the college catalog. |
| WELD 60 — Print Reading and Computations for Welders 3 Units Not Degree Applicable 54 hours lecture Reading prints and performing computations for welding fabrication operations. Interpreting and visualizing prints, title blocks, welding symbols, specifications, notes, and bills of materials. Computations necessary to calculate materials, costs, sizes, and fractional, decimal and metric conversions. | 18 nours lecture 108 hours lab Advisory: WELD 70B, WELD 70C | Advisory: WELD 70B Provides actual on-the-job experience in welding at an approved work site which is related to classroom instruction. A minimum of 75 paid or 60 non-paid clock hours per semester of supervised work is required for each unit of credit. Students who repeat this course will improve skills through further instruction and practice. |
| WELD 70A — Beginning Arc Welding 3 Units Degree Applicable 18 hours lecture 108 hours lab Develops manipulative skills and techniques for the beginning student welder on the shield metal arc (SMAW) and the flux cored arc (FCAW) welding processes in the flat and horizontal positions using AC and DC welding currents on carbon steel. | WELD 90A — Gas Tungsten Arc Welding 3 Units | |

Section 11

CONTINUING EDUCATION (ADULT EDUCATION) COURSES

Noncredit courses are designed to meet the special needs and capabilities of those students who do not desire or need to obtain college unit credit. These courses provide developmental, occupational and other general education opportunities. Courses and programs are further defined categorically under the California Education Code, Section 84711, whereby state funding is authorized for nine specific categories as follows: Parenting, Basic Skills (*including tutoring*), English as a Second Language, Citizenship, Programs for the Handicapped, Vocational Courses, Programs for the Older Adult, Home Economics, Health and Safety and additional courses qualified for adult education curricula.

Student Services

Admissions and Registration

For Continuing Education (*noncredit*) and Community Services (*fee-based*) offerings, admission and registration is completed using a registration card. However, enrollment in ESL and/or Basic Skills courses REQUIRES assessment and orientation prior to registration (*see explanations, following*). Students may register for most courses at any time during the semester, on a space available basis. Noncredit and fee-based offerings are available to community members regardless of residency status.

Assessment

Basic Skills students are assessed prior to enrolling in courses. Additional assessments are available for specific needs. Basic Skills assessment services include testing for academic skill levels, learning strengths, career paths and learning disabilities. For more information, contact (909) 594-5611, ext. 4845.

ESL students must be assessed prior to enrollment. Placement testing is offered every Thursday, year-round. Multilingual assistance is available. For more information, contact (909) 594-5611, ext. 5235.

Orientation

Basic Skills and ESL students must attend an orientation session prior to registration. Orientation sessions are generally offered immediately after assessment.

Counseling and Advisement

Educational advisement services are available in the Continuing Education Division office the Administration Building, building 4, room 221D, during the first week of registration and at the beginning of each semester for career and educational planning. These educational advisement services are also on-going throughout the semester through the Continuing Education Center. To schedule an individual appointment, students should call the Continuing Education Center, (909) 594-5611, ext. 4845. The Basic Skills and ESL departments provide counselors and educational advisors to serve their students. Assistance to all noncredit students includes development of Educational and Career Plans, identification of personal, academic and career goals, career skill practice and resources, transitioning to credit programs, and assessment of special needs.

Fees and Expenses

There is no tuition for noncredit courses. However, some courses include a fee for materials provided to students. In addition, students who park on the Mt. San Antonio College campus must have a valid, current parking permit. Permits may be purchased in the Administration Building, Building 4, lower level. Books and supplies needed for a class are the responsibility of the student unless specifically noted as provided by a material fee.

Credit/Noncredit Combined Courses

The Division offers many credit classes to Continuing Education students for noncredit. Students may enroll in these classes in accordance with procedures outlined in the Continuing Education class schedule. Students will not receive college credit. However, students enrolled in these classes who wish to receive a certificate of completion are expected to complete all assignments including tests, quizzes, projects and examinations. (*A list of Noncredit Certificate Programs is provided beginning on page 215 of this catalog.*)

Students wishing to complete a noncredit certificate program in one of the occupational areas of study must apply to the Continuing Education Division office, the Administration Building, building 4, room 221 to initiate the issuance of a certificate.

Basic Skills and Special Programs

The Basic Skills and Special Programs department works with local K-12 districts, county and state agencies to provide programs to students with special and/or basic skills needs. Courses and services include:

- Basic Skills Remediation
- GED Preparation and Testing
- Adult High School Diploma Program
- High School Referral Program (high school make-up credit)
- Summer High School Program
- Athlete Tutoring and Student Support (WIN Program)
- Parent Education Courses
- Armed Services Vocational Aptitude Battery (ASVAB) Preparation
- Support Services to Careers in Childcare Program Students
- High School and Career Counseling; Educational Advising
- Computer Literacy and Keyboarding Classes
- Typing Test Certification

For more information on Basic Skills and Special Programs, contact (909) 594-5611, ext 4845.

English as a Second Language

ESL classes are provided for English language learners at all levels of proficiency, from low literacy to advanced, transitioning to credit. Classes and services include:

- Assessment for level placement (Pre-Level 1 Level 6)
- Core level classes focusing on integrated skills (*grammar*, *listening*, *speaking*, *reading and writing*)
- Skill-focused classes (Speaking A-C, Writing A-C)
- Specialized courses (TOEFL preparation, Citizenship preparation)
- Vocational ESL (*Career Paths*)
- Contract ESL customized for the workplace
- Career guidance and counseling

For more information on ESL programs located in the Language Center, Building 66, contact (909) 594-5611, ext. 5235.

Language Learning Center

Mt. San Antonio College's Language Learning Center (LLC) provides a laboratory in which students may practice ESL and a variety of foreign languages, including Chinese, English, French, German, Italian, Japanese, Spanish and Sign Language. Located in the Learning Technology Center, building 6, room 264, the LLC is available on a noncredit and credit basis. Users of the LLC may register year-round. Offerings include:

- Interactive language software in all supported languages
- DVD's, videos, audio recordings
- Pronunciation software
- Computer Aided Testing for Federal Aviation Administration and Chiropractic tests

For more information on the LLC, contact (909) 594-5611, ext. 4580.

Exercise Science and Wellness Center

The Exercise Science and Wellness Center provides an exercise facility which includes cardio and strengthening equipment, a variety of exercise classes led by certified instructors and specialized fitness testing. It welcomes community members as well as Mt. San Antonio College students and employees. Individuals can register in the Continuing Education Registration office in the Administration Building, building 4, room 221D, or in the Wellness Center. For more information, contact (909) 594-5611, ext. 4625.

Community Health Programs and CPR

The College offers courses such as First Aid, Heartsaver, AED and more.

- Records rosters and information updates per American Heart Association (AHA) requirements
- Provides videos, texts and manikins per AHA requirements

For more information, contact (909) 594-5611, ext. 4838.

Health Careers Resource Center (HCRC)

The Center provides the resources to increase student knowledge base, to learn new skills and to reinforce previously learned skills. Resources are provided to anyone involved or interested in health occupations. The HCRC provides a state-of-the-art learning lab environment to:

- develop new health related skills/knowledge
- update prior or current knowledge
- participate in simulated clinical activities which will promote success in the health care industry.

The center is open to credit and noncredit health career students, community health care workers/professionals, individuals preparing for health related licensure or certification exams and any individual involved or interested in health related careers. Some of the campus programs/departments actively utilizing the center include:

- Technology and Health Division
- Medical Services EMT, Paramedic, PA Prep
- Mental Health Technology
- Nursing
- Radiologic Technology
- Respiratory Therapy
- Community and Non-Credit Education Division
- Long-Term and Acute Certified Nursing Assistant (C.N.A.)
- RN Re-entry Into Practice
- IV Therapy, CPR
- Health Care Interpreting
- International Health Worker
- Physical Therapy Aide

Health Careers Resource Center Available Services

- RN assistance in clinical skills practice and performance evaluation
- Medical and hospital equipment/supplies/ manikins/ training aides for hands on demonstrations and application of basic, intermediate and advanced skills
- Health Skills Performance Update/ Evaluation
- Clinical simulations for Med-Surg, Psych, OB, Peds, Perioperative etc.

Self-Paced, Multisensory Learning Aides

- Expansive Technology Library on all health subjects
- Medical/Nursing resource books, journals
- ADAM programs for anatomy and physiology review
- Mock computer adaptive testing programs for NCLEX- RN and PN State Board Exam preparation
- Computer adaptive instruction for gaining or remediating math, pharmacology, dosage calculation skills or medication administration skills
- Internet access for searching full-text article databases and access lists of pre-evaluated web sites on all lab computers
- Computerized virtual clinical simulation programs
- Medical terminology and bilingual media for International learners

Older Adult Program*

Courses designed for older adults (*age 55+ years*) provide the full continuum of education from vocational classes to the pursuit of long-standing educational goals. Classes are offered in the arts, personal growth, physical and mental fitness and vocational areas, and are conducted both on campus and at various senior and community centers and residential facilities throughout the Mt. San Antonio College District.

Mountie Volunteer Program (MVP)

The MVP Program coordinates and provides volunteer opportunities on campus while providing training and support services for MVP participants. Partnering with the Retired Senior Volunteer Program (RSVP) of the greater Pomona Valley, the program provides for the recruiting and screening of potential volunteers.

Generations Program

The Generations Program provides educational activities which foster intergenerational relationships that link generations for the good of society, such as student athletes providing volunteer hours for the Older Adult Program.

For more information on Older Adult Programs, please call (909) 594-5611, ext. 4192.

Other Continuing Services and Programs

- Fee-based programs related to career development and personal enrichment for community members
- College 4 Kids and Youth Programs
- CPR and First Aid
- Vehicle Safety Programs (*Motorcycle, Traffic School, Driver's Training*)
- Continuing Education Fitness Programs
- Farm Tours
- Wildlife Sanctuary Tours
- Planetarium Shows
- Study Skills Laboratory for Disabled Students Programs and Services
- San Gabriel Valley Training Center (serving developmentally disabled adults)

For more information regarding Continuing Education Services and Programs, contact (909) 594-5611, ext. 4220.

NONCREDIT LIST OF CERTIFICATES

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| Accounting |
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| Bookkeeping |
| Computerized |
| Payroll |
| Agricultural Science |
| Floral Design |
| Horse Ranch Management |
| Interior Landscaping |
| Landscape and Park Maintenance |
| Landscape Design and Construction |
| Landscape Equipment Technology |
| Landscape Irrigation |
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| Manufacturing Technology | |
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CERTIFICATES OF COMPETENCY

Noncredit Certificates of Competency represent sequences of courses in Basic Skills, Career Development, English as a Second Language or Secondary Education, which allow the student to develop individual competencies based on their personal educational goals and objectives. Each certificate is unique, but all provide the student an opportunity to gain skills necessary to advance in their careers, transition into a new career or prepare for future advanced academic studies and training.

Students are encouraged to gain more information by calling the College telephone number listed in each of the four specific Certificates of Competency that follow.

Basic Skills SYS #102892

The Basic Skills Certificate of Competency provides courses and training in skills that will improve opportunities for students to obtain employment, advance in their careers or prepare for future advanced academic studies. Students will increase basic skills, i.e., reading, writing, math and computer skills, and progress in this sequence based on individual needs. Courses are offered days and evenings to accommodate work and personal schedules. For more information, please call (909) 594-5611, ext. 4845.

CONTINUING EDUCATION

| Course ID | Course Title |
|-----------|--|
| BS ABE02 | Adult Basic Education |
| BS ABE06 | Basic Skills Foundation |
| BS LRN06 | Personal Computer Applications |
| BS LRN01 | Short-Term Review |
| BS LRN03 | Math Skills Review |
| BS LRN72 | Reading Acceleration |
| BS LRN76 | Improving Reading Comprehension |
| BS LRN81 | Improving Writing |
| BS MTH01 | Developmental Mathematics Concepts and Applications |
| BS WRT2 | Basic Writing Skills Development |

Career Development SYS #244852

Career development provides students with information and guidance on college opportunities, careers and life planning. Students can apply skills gained to their current employment and personal lives and will improve their opportunities to advance in their careers or transition into a new career. This sequence of courses is offered days and evenings to accommodate adults with alternating schedules. For more information, please call (909) 594-5611, ext. 4845.

Certificate Reauirements:

Course ID **Course Title**

| BS ABE01 | Career Information and Guidance |
|----------|--|
| BS ABE02 | Adult Basic Education |
| BS ABE03 | Adult Basic Education – Leadership Development |
| BS ABE04 | Guidance and Orientation to Special Programs |
| BS ABE05 | Career Development |
| BS ABE06 | Basic Skills Foundation |
| BS ABE07 | Re-Entry Work Skills Needed for Today's Workforce |
| BS CNSL5 | Career/Life Planning |
| | |

English as a Second Language SYS #784025

ESL students are placed within the following sequence of courses according to their English abilities. Students progress through this sequence based on individual need before transferring into credit courses or employment. Supplemental courses in speaking, writing and vocational language will assist their progress through the sequence and may be taken along with level classes as needed. Courses are offered all year long, including winter and summer intersessions. Classes are offered days, evenings and weekends. For more information, please call (909) 594-5611, ext. 5235.

Certificate Reauirements:

| cer ancate nega | in chirchics. |
|-----------------|-------------------|
| Course ID | Course Title |
| ESL PLVL1 | ESL – Pre-Level 1 |
| ESL LVL1 | ESL – Level 1 |
| ESL LVL2 | ESL – Level 2 |
| ESL LVL3 | ESL – Level 3 |
| ESL LVL4 | ESL – Level 4 |
| ESL LVL5 | ESL – Level 5 |
| ESL LVL6 | ESL – Level 6 |
| ESL SPKA | ESL – Speaking A |
| ESL SPKB | ESL – Speaking B |
| ESL SPKC | ESL – Speaking C |

| ESL TOEFL | TOEFL Preparation |
|-----------|--|
| ESL WRTA | ESL Writing A |
| ESL WRTB | ESL Writing B |
| ESL WRTC | ESL Writing C |
| ESL LANG3 | English for Special Uses |
| BS LANG1 | Language Skills Laboratory |
| ESL VHLTH | English as a Second Language for Health Professionals |

Secondary Education SYS #259121

The High School Program provides all courses needed to satisfy requirements for a high school diploma. Students earning a high school diploma increase future employment and educational opportunities, including college and training programs. Completion of these courses will provide the student with a high school diploma. For more information, please call (909) 594-5611, ext. 4845.

Certificate Requirements:

BSHS BIO

BSHS CIV

BSHS KEY

BSHS LSC

Course ID **Course Title**

BSHS ACDE High School Academic Decathlon **BSHS ADRW** High School Expository Writing and Critical Thinking **BSHS ALG1** High School Algebra 1 **BSHS ALG2** High School Algebra 2 **BSHS ART1** High School Art and Creative Expression BSHS ART2 Hiah School Art 2 High School Biology **BSHS CHEM** High School Chemistry **BSHS CHN1** High School Chinese 1 High School Civics/American Government **BSHS CPTC** High School Computer Technology **BSHS DIPR** High School Diploma and Referral **BSHS ECON** High School Economics **BSHS EELA** High School CAHSEE Prep – English Language Arts **BSHS EEMA** High School CAHSEE Prep – Mathematics **BSHS ENG1** High School English 1 BSHS ENG2 High School English 2 BSHS ENG3 Hiah School Enalish 3 BSHS ENG4 High School English 4 BSHS GEOG High School Geography BSHS GEOM High School Geometry **BSHS GRAP** High School Advanced Graphics/Printing **BSHS HLTH** High School Health **BSHS JOUR** High School Journalism High School Typing/Keyboarding High School Life Science

| BSHS MTH2 | High School General Math |
|-----------|--|
| BSHS MUSC | High School Music Appreciation |
| BSHS NS1 | High School Natural Science 1 |
| BSHS NS2 | High School Natural Science 2 |
| BSHS PHIL | High School Philosophy |
| BSHS PHSC | High School Physical Science |
| BSHS PLNG | High School Planning and Guidance |
| BSHS PREA | High School Pre-Algebra |
| BSHS PSY | High School Psychology |
| BSHS SSK | High School Study Skills |
| BSHS SS | High School Single Survival |
| BSHS SOC | High School Sociology |
| BSHS SPN1 | High School Spanish 1 |
| BSHS SPN2 | High School Spanish 2 |
| BSHS STG | High School Stagecrafts |
| BSHS TAL2 | High School Topics in Algebra 2 |
| BSHS TGEO | High School Topics in Geometry |
| BSHS USHS | High School United States History |
| BSHS VDEO | High School Video and Media Production |
| BSHS WHS | High School World History |
| BSHS WREX | High School Expository Writing |
| | |

CERTIFICATES IN OCCUPATIONAL TRAINING

California Community College Adult Education Programs are authorized to offer short-term vocational programs with high employment potential. The demonstration of need to offer these programs within the College service area is determined by manpower needs projections from the California Occupational Information System (COTS), or surveys of employer needs in the community, or state licensing mandates and/or certification.

What Are Occupational Training Certificates?

Certificates in a variety of vocational programs are available through the Continuing Education Division. Many of these certificate programs mirror those offered through the credit programs of the College, are favorably recognized by business and industry, and are frequently used as a requirement for professional advancement. Classes taken are noncredit, and do not generate college units toward a degree. The Continuing Education Division also offers fee-based Certificate Programs. These include:

- Accounting/Bookkeeping
- CPR and First Aid
- Medical Insurance Billing Specialist
- Phlebotomv

Specific certificate content and more information can be found in the Community Services Schedule of Classes each semester or contact (909) 594-5611, ext. 4220.

How to Finish an Occupational Certificate

In order for students to receive a Certificate of Completion, the student must do the following:

- Register and pay material fees if required for desired classes
- Attend a minimum of 75% of required class hours
- Satisfactorily complete coursework, papers and projects, take and pass mid-terms and final with the equivalent of a "C" grade
- When all courses are completed, apply to the Continuing Education Office

Attendance and signatures will be verified by the Continuing Education Division staff. If all requirements are met, a Certificate of Completion will be prepared and delivered to the student.

Gettina Help

For more information regarding occupational training certificates, please call the Division office at (909) 594-5611, ext. 4220.

Educational Advisers are available to assist students with Career and Education Planning. During the first week of registration, they are available in the registration area, the Administration Building, building 4, room 221D. Times will be posted and students served on a first-come, firstserved basis. Advisers are also available by appointment during the semester. Please call (909) 594-5611, ext. 4845 to schedule an appointment.

OCCUPATIONAL – ACCOUNTING

Accounting – Bookkeeping SYS #538161

The Bookkeeping Certificate provides the student with the basic skills and knowledge for entry-level positions within the clerical/accounting field. Common duties performed in this field are posting transactions to journals/ledgers. accounts receivable, accounts payable, inventory tracking/reporting, bank reconciliation, expense reporting and account analysis. The sequence can be completed in one year, and courses are offered Fall and Spring semesters.

Certificate Requirements:

| Course ID | Course Title |
|-----------|--|
| VOC BA07 | Principles of Accounting – Financial, OR |
| VOC BA72 | Bookkeeping – Accounting |
| VOC BA53 | Ten-Key Calculations |
| VOC BO05 | Business English, <u>or</u> |

VOC B025 **Business Communications**

Accounting – Computerized SYS #962408

The Computerized Accounting Certificate provides the student with basic accounting skills and knowledge together with additional training in computer applications common to the accounting industry. This certificate prepares the student for an entry-level position as a computerized accounting clerk. Common duties performed in this field are utilization of accounting software programs for posting transactions to journals/ledgers, accounts receivable, accounts payable, inventory tracking/reporting, bank reconciliation, expense reporting and account analysis.

Certificate Requirements:

Completion of Accounting – Bookkeeping Certificate (234 hours)

| Course ID | Course Title |
|-----------|------------------------------------|
| VOC BA75 | Using Microcomputers in Financial |
| | Accounting |
| VOC BA76 | Using Microcomputers in Managerial |
| | Accounting |
| VOC CSB15 | Microcomputer Applications |
| VOC CP11 | Internet Research for Business |
| VOC CP20 | Microsoft Word |
| | |

Accounting – Payroll SYS #597867

The Pavroll Certificate combines basic accounting skills with specialized training in payroll preparing the student for entry-level positions within the payroll segment of accounting. Common duties performed in this field include payroll tax reporting, maintenance of payroll accounting systems and posting payroll transactions to ournals/ledgers.

Certificate Requirements:

VOC BS75

VOC BA76

Completion of Accounting – Bookkeeping Certificate (234 hours)

Course ID **Course Title** VOC BA70

| Payroll and Tax Accounting |
|------------------------------------|
| Using Microcomputers in Financial |
| Accounting, <u>or</u> |
| Using Microcomputers in Managerial |
| Accounting |

OCCUPATIONAL – AGRICULTURAL SCIENCE

Floral Design SYS #132282

This sequence is offered in the evening only on campus and at off-campus locations and can be completed in two years. Students completing all three courses will have skills and knowledge to seek jobs in floral design beyond entry-level positions, i.e., first-line supervision and/or management and Floral Designers.

Certificate Requirements:

| Course ID | Course Title |
|-----------|-------------------|
| VOC AGR25 | Floral Design — 1 |
| VOC AGR26 | Floral Design — 2 |
| VOC AGR27 | Floral Design — 3 |
| | |

Horse Ranch Management SYS #391289

This sequence of courses is designed to enable students to prepare for a career in horse ranch management. Courses provide students hands-on experience designed to give them a combination of practical skills and technical knowledge.

Certificate Requirements:

| Course ID | Course Title |
|-----------|---------------------------------------|
| VOC AGN02 | Animal Nutrition |
| VOC AGN94 | Animal Breeding |
| VOC AGL16 | Horse Production or |
| VOC AGL18 | Horse Ranch Management |
| VOC AGL19 | Horse Hoof Care |
| VOC AGL96 | Animal Sanitation and Disease Control |
| VOC AGL97 | Artificial Insemination of Livestock |

Interior Landscaping SYS #118137

This certificate is designed to give students basic skills in the design, installation and maintenance of interior plants that are used in residences, offices, hotels, malls, restaurants and other locations.

| Certificate Requirements: | | |
|---------------------------|-----------------------|--|
| Course ID | Course Title | |
| VOC AGR01 | Horticultural Science | |
| VOC AGR13 | Landscape Design | |

| VOC AGR15 | Interior L | andscaping. |
|-----------|------------|-------------|
| | | |

VOC AGR24 Integrated Pest Management VOC AGR29 Ornamental Plants – Herbaceous

Landscaping and Nursery Management Landscape Irrigation – Design and Installation Landscape Irrigation – Drip and Low Volume

Landscape and Park Maintenance SYS #621629

This certificate is designed to give students basic skills in park landscape maintenance. Courses are offered annually. and prepare the student with skills that are appropriate for the maintenance of grounds, property or parks.

Certificate Requirements: Course

VOC AGR32

VOC AGR62

VOC AGR64

| Certificate Requirements: | | |
|---------------------------|--|-------|
| Course ID | Course Title | Hours |
| VOC AGR01 | Horticultural Science | |
| VOC AGR24 | Integrated Pest Management | |
| VOC AGR29 | Ornamental Plants – Herbaceous | |
| VOC AGR30 | Ornamental Plants – Trees and Woo Shrubs | dy |
| VOC AGR39 | Turf Grass Production and Managen | nent |
| VOC AGR40 | Sports Turf Management | |
| VOC AGR51 | Tractor and Landscape Equipment Operations | |
| VOC AGR62 | Landscape Irrigation – Design and Installation | |
| VOC AGR63 | Landscape Irrigation System Management | |
| VOC AGR71 | Landscape Construction Fundament | tals |

Landscape Design and Construction SYS #919610

This certificate is designed to give students basic skills needed in employment with a landscape contractor. Employment potential is very good.

Certificate Requirements:

| Course ID | Course Title |
|-----------|---|
| VOC AGR01 | Horticultural Science |
| VOC AGR13 | Landscape Design |
| VOC AGR29 | Ornamental Plants – Herbaceous |
| VOC AGR30 | Ornamental Plants – Trees and Woody Shrubs |
| VOC AGR50 | Soil Science and Management |
| VOC AGR51 | Tractor and Landscape Equipment Operations |
| VOC AGR62 | Landscape Irrigation — Design and Installation |
| VOC AGR71 | Landscape Construction Fundamentals |
| VOC AGR72 | Landscape Hardscape Applications |

CONTINUING EDUCATION

Landscape Equipment Technology SYS #875616

This certificate is designed to give students basic skills to seek employment in equipment repair, golf courses, rental yards and small equipment repair shops.

Certificate Reauirements:

| Course ID | Course Title |
|-----------|---|
| VOC AGR01 | Horticultural Science |
| VOC AGR51 | Tractor and Landscape Equipment Operations |
| VOC AGR52 | Hydraulics |
| VOC AGR53 | Small Engine Repair I |
| VOC AGR55 | Diesel Engine Repair |
| VOC AGR56 | Engine Diagnostics |
| VOC AGR57 | Power Train Repair |
| VOC AGR71 | Landscape Construction Fundamentals |
| VOC AGR72 | Landscape Hardscape Applications |

Landscape Irrigation SYS #327645

This certificate is designed to give students basic skills in irrigation design, repair installation, water management and troubleshooting. Courses are offered Fall and Spring semesters. Jobs are plentiful with landscape contractors, schools, parks and cities.

Certificate Requirements:

| Course ID | Course Title |
|-----------|---|
| VOC AGR01 | Horticultural Science |
| VOC AGR13 | Landscape Design |
| VOC AGR39 | Turf Grass Production and Management |
| VOC AGR50 | Soil Science and Management |
| VOC AGR51 | Tractor and Landscape Equipment Operations |
| VOC AGR62 | Landscape Irrigation — Design and Installation |
| VOC AGR63 | Landscape Irrigation System Management |
| VOC AGR64 | Landscape Irrigation – Drip and Low Volume |
| VOC AGR71 | Landscape Construction Fundamentals |
| | |
| | |
| | |

Livestock Management SYS #533598

This certificate is designed to give students basic skills in livestock management for employment opportunities on farms, ranches and agriculture sales and services. This sequence is offered on an annual basis.

Certificate Requirements:

| Course ID | Course Title |
|-------------------|--|
| VOC AGG01 | Food Production, Land Use and Politics – a Global Perspective |
| VOC AGN01 | Animal Science |
| VOC AGN02 | Animal Nutrition |
| VOC AGN94 | Animal Breeding |
| VOC AGL14 | Swine Production |
| VOC AGL16 | Horse Production |
| VOC AGL17 | Sheep Production |
| VOC AGL30 | Beef Production |
| VOC AGL34 | Livestock Judging and Selection |
| VOC AGL96 | Animal Sanitation and Disease Control |
| Plus select 2 cou | urses from the following: |
| VOC AGR71 | Landscape Construction Fundamentals |
| | |

| VOC BM20Principles of BusinessVOC BM66Small Business ManagementVOC BS35Professional SellingVOC BS36Principles of Marketing | VOC AGR71 | Landscape Construction Fundamenta |
|--|-----------|-----------------------------------|
| VOC BS35 Professional Selling | VOC BM20 | Principles of Business |
| ·····j | VOC BM66 | Small Business Management |
| VOC BS36 Principles of Marketing | VOC BS35 | Professional Selling |
| | VOC BS36 | Principles of Marketing |

Nursery Management SYS #703868

This certificate is designed to give students basic skills in production and marketing of plants and dry goods in the wholesale and retail nursery industry. The sequence is offered on an annual basis.

Certificate Requirements:

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VOC

| se ID | Course Title |
|-------|---|
| AGR01 | Horticultural Science |
| AGR02 | Plant Propagation/Greenhouse |
| | Management |
| AGR24 | Integrated Pest Management |
| AGR29 | Ornamental Plants – Herbaceous |
| AGR30 | Ornamental Plants – Trees and Woody Shrubs |
| AGR32 | Landscaping and Nursery Management |
| AGR39 | Turf Grass Production and Management |
| AGR62 | Landscape Irrigation — Design and Installation |
| AGR64 | Landscape Irrigation — Drip and Low Volume |

Park Management SYS #314920

This certificate is designed to enable students to prepare for a career in park management, and provides students with hands-on experience, designed to give them a combination of practical skills and technical knowledge

Certificate Requirements:

| Course ID | Course Title |
|-----------|--------------------------------------|
| VOC AGR01 | Horticultural Science |
| VOC AGR04 | Park Management |
| VOC AGR05 | Park Facilities |
| VOC AGR24 | Integrated Pest Management |
| VOC AGR30 | Ornamental Plants – Trees and Woody |
| | Shrubs |
| VOC AGR39 | Turf Grass Production and Management |
| VOC AGR51 | Tractor and Landscape Equipment |
| | Operations |
| VOC AGR62 | Landscape Irrigation – Design and |
| | Installation |
| VOC AGR63 | Landscape Irrigation System |
| | Management |
| VOC AGR75 | Urban Arboriculture |

Pet Science SYS #425556

This certificate is designed to enable students to enter the retail or wholesale pet industry. Most of the courses in this certificate are offered every Fall and Spring semester. Five of the courses are offered in the evening only and are rotated over four semesters.

Certificate Requirements: Cours

| Course ID | Course Title | |
|-----------|--|----|
| VOC AGN01 | Animal Science | V |
| VOC AGN02 | Animal Nutrition | V |
| VOC AGN51 | Animal Handling and Restraint | V |
| VOC AGN94 | Animal Breeding | |
| VOC AGL96 | Animal Sanitation and Disease Control | V(|
| VOC AGP70 | Pet Shop Management | V(|
| VOC AGP71 | Canine Management | |
| VOC AGP72 | Feline Management | |
| VOC AGP73 | Tropical and Coldwater Fish Management | |
| VOC AGP74 | Reptile Management | |
| VOC AGP76 | Aviculture — Cage and Aviary Birds | |
| VOC BM66 | Small Business Management | |
| | | |

Sports Turf Management SYS #332420

This certificate is designed to provide skills required for students interested in employment at golf courses, race tracks, athletic fields and stadiums, and other high-use turf areas. The sequence is offered on an annual basis.

Certificate Requirements:

| Course ID | Course Title | |
|-----------|---|--|
| VOC AGR01 | Horticultural Science | |
| VOC AGR24 | Integrated Pest Management | |
| VOC AGR30 | Ornamental Plants – Trees and Woody Shrubs | |
| VOC AGR39 | Turf Grass Production and Management | |
| VOC AGR40 | Sports Turf Management | |
| VOC AGR50 | Soil Science and Management | |
| VOC AGR51 | Tractor and Landscape Equipment Operations | |
| VOC AGR62 | Landscape Irrigation — Design and Installation | |
| VOC AGR63 | Landscape Irrigation Systems Management | |
| | | |

Tree Care and Maintenance SYS #182769

This certificate is designed to give students basic skills in the repair and maintenance of trees.

Certificate Reauirements:

| Course ID | Course Title |
|-----------|---|
| VOC AGR01 | Horticultural Science |
| VOC AGR24 | Integrated Pest Management |
| VOC AGR30 | Ornamental Plants – Trees and Woody Shrubs |
| VOC AGR32 | Landscape and Nursery Management |
| VOC AGR50 | Soil Science and Management |
| VOC AGR51 | Tractor and Landscape Equipment Operations |
| VOC AGR53 | Small Engine Repair 1 |
| VOC AGR75 | Urban Aboriculture |

OCCUPATIONAL – BUSINESS MANAGEMENT

Business Management – Level 1 SYS #818545

The Business Management – Level 1 Certificate is designed to introduce the student to the role of management in business. Students will be exposed to the terms, trends, organizational structure, and opportunities inherent in business management. The Department has sequenced courses to maximize student time, and there are four emphasis areas: Business Management, Human Resource Management, International Business or Small Business Management.

Certificate Requirements:

| Course ID | Course Title |
|-----------|--------------------------------------|
| VOC BM20 | Principles of Business |
| VOC BM61 | Business Organization and Management |
| VOC BS36 | Principles of Marketing |

Business Management – Level 2 SYS #245391

The Business Management – Level 2 Certificate builds upon the Level 1 certificate to provide students with proven business tools that will enhance their management careers. Students will be exposed to projects and business simulations that will lead to measurable success. The Department has sequenced courses to maximize student time, and there are four emphasis areas: Business Management, Human Resource Management, International Business or Small Business Management.

Certificate Requirements:

Completion of: Business Management – Level I

PLUS the following:

| Course ID | Course Title |
|-----------|-----------------------------|
| VOC BM60 | Human Relations in Business |
| VOC BM62 | Human Resource Management |
| VOC CSB15 | Microcomputer Applications |

Business Management – Level 3 SYS #965642

Upon completion of the Business Management – Level 3 Certificate, students will have built a foundation of management strategies and practices which will enable them to prosper in an ever-changing business environment. The Department has sequenced courses to maximize student time, and there are four emphasis areas: Business Management, Human Resource Management, International Business or Small Business Management.

Certificate Reauirements:

Completion of: Business Management – Level 1 Business Management – Level 2

PLUS the followina:

| Course ID | Course Title |
|-----------|---|
| VOC BA07 | Principles of Accounting – Financial |
| VOC BM10 | Principles of Continuous Quality Improvement |
| VOC BM51 | Principles of International Business |

Human Resource Management SYS #152977

This introductory certificate exposes students to the business world and the role of human resources. Students become familiar with various approaches to business organization and the strategic nature of human resources. The Department has sequenced courses to maximize student time, and there are four emphasis areas: Business Management, Human Resource Management, International Business or Small Business Management.

Certificate Requirements:

| Course ID | Course Title |
|-----------|--------------------------------------|
| VOC BM20 | Principles of Business |
| VOC BM61 | Business Organization and Management |
| VOC BM62 | Human Resource Management |

International Business – Level 1 SYS #665499

This specialized business certificate is intended to prepare the student to work in the unique and dynamic environment of international business. The program also prepares the student as a business management generalist for companies conducting international trade. The Department has sequenced courses to maximize student time, and there are four emphasis areas: Business Management, Human Resource Management, International Business or Small Business Management.

Certificate Reauirements:

| Course ID | Course Title |
|-----------|--------------------------------------|
| VOC BM20 | Principles of Business |
| VOC BM51 | Principles of International Business |
| VOC BS36 | Principles of Marketing |

International Business – Level 2 SYS #745751

In the International Business – Level 2 Certificate, the student will learn methods and approaches to managing the complexities of doing business in an international environment. Students acquire both theoretical knowledge and practical skills related to managing and marketing within the global arena. The Department has sequenced courses to maximize student time, and there are four emphasis areas: Business Management, Human Resource Management, International Business or Small Business Management.

Certificate Requirements:

Completion of: International Business Level 1

PLUS the following:

- Course ID **Course Title**
- VOC BM61 Business Organization and Management
- VOC BM66 Small Business Management
- VOC BS70 International Marketing Concepts

Retail Management – Level 1 SYS #601197

Introductory certificate exposes students to the business world and the role of retail distribution. The Department has sequenced courses to maximize student time, and there are five emphasis areas: Business Management, Human Resource Management, International Business, Retail Management and Small Business Management.

Certificate Reauirements:

| Course ID | Course Title |
|-----------|---|
| VOC BO25 | Business Communications |
| VOC CSB15 | Microcomputer Applications |
| VOC FSH62 | Retail Store Management and Merchandising |
| VOC BS50 | <u>or</u> Retail Store Management and Merchandising |

Retail Management – Level 2 SYS #527217

Intermediate certificate builds upon the Level 1 Certificate to expose students to the various functions of managers in retail positions. The Department has sequenced courses to maximize student time, and there are five emphasis areas: Business Management, Human Resource Management, International Business, Retail Management and Small Business Management.

Certificate Requirements:

Completion of: Retail Management – Level 1

PLUS the followina:

- Course ID **Course Title**
- VOC BA11 Fundamentals of Accounting
- VOC BM61 **Business Organization and Management**
- VOC BM62 Human Resource Management
- VOC BS36 Principles of Marketing

Retail Management – Level 3 SYS #127007

Students completing the advanced Level 3 Certificate will have knowledge and practical experience in business communication, leadership and financial controls. The Department has sequenced courses to maximize student time, and there are five emphasis areas: Business Management, Human Resource Management, International Business, Retail Management and Small **Business Management.**

Certificate Requirements:

Completion of: Retail Management – Level 1 Retail Management – Level 2

PLUS the following:

| Course ID | Course Title |
|-----------|--------------------------------------|
| VOC BA07 | Principles of Accounting – Financial |
| VOC BM60 | Human Relations in Business |
| VOC B026 | Oral Communications for Business |
| | |

Small Business Management -Level 1 SYS #563137

Small business has been described as the engine of change within the economy. The Small Business Management – Level 1 Certificate exposes the student to the fundamentals of managing and planning a small business. The Department has sequenced courses to maximize student time, and there are four emphasis areas: Business Management, Human Resource Management, International Business or Small Business Management. Courses are offered on an annual basis, and each level of Small Business Management emphasis can be completed in one semester.

Certificate Requirements:

| , Course ID | Course Title |
|----------------|---------------------------|
| VOC BM20 | Principles of Business |
| VOC BM66 | Small Business Management |
| VOC BS36 | Principles of Marketing |

Small Business Management -Level 2

SYS #2511547

The Small Business Management – Level 2 Certificate provides students with practical small business tools. It focuses on issues such as motivation, teamwork and leadership skills that lead to enhanced productivity through the development of people. The Department has sequenced courses to maximize student time, and there are four emphasis areas: Business Management, Human Resource Management, International Business or Small Business Management, Courses are offered on an annual basis, and each level of Small Business Management emphasis can be completed in one semester.

Certificate Requirements:

Completion of:

Small Business Management – Level 1

PLUS the followina:

| Course ID | Course Title |
|-----------|--------------------------------------|
| VOC BM60 | Human Relations in Business |
| VOC BM61 | Business Organization and Management |
| VOC BM62 | Human Resource Management |

OCCUPATIONAL – ELECTRONICS

Computer and Networking

Technology – Level I

SYS #531657

This certificate is intended to prepare students to enter the computer and networking fields as service technicians with foundations in basic electronics, telecommunications, computer servicing and networking servicing.

Certificate Requirements: Course

| Course ID | Course Title |
|-----------|--|
| VOC CNT50 | PC Servicing |
| VOC CNT52 | PC Operating Systems |
| VOC CNT54 | PC Troubleshooting |
| VOC CNT60 | A+ Certification Preparation |
| VOC EL11 | Technical Applications in Microcomputers |
| | <u>or</u> |
| VOC CSB15 | Microcomputer Applications |
| VOC EL50A | Electronic Circuits (DC) |
| VOC EL50B | Electronic Circuits (AC) |
| VOC EL56 | Digital Electronics |
| | |

Computer Systems Technology SYS #622137

The Computer Systems Technology curriculum

encompasses advanced coursework in computer systems circuitry. This includes microprocessor programming codes and microprocessor interfacing circuits.

Certificate Requirements:

| Course ID | Course Title |
|-----------|--|
| VOC EL11 | Technical Applications in Microcomputers |
| VOC EL12 | Computer Simulation and Troubleshooting |
| VOC EL50A | Electronic Circuits (DC) |
| VOC EL50B | Electronic Circuits (AC) |
| VOC EL51 | Electronic Devices |
| VOC EL56 | Digital Electronics |
| VOC EL61 | Electronics Assembly and Fabrication |
| VOC EL74 | Microprocessor Systems |

Electronic Assembly and Fabrication SYS #352346

This certificate prepares students to enter the electronics field as assembly and fabrication technicians.

Certificate Requirements:

| Course Title |
|--|
| Electronic Circuits (DC) |
| Electronic Circuits (AC) |
| Electrical Fundamentals for Cable Installations |
| Electronic Assembly and Fabrication |
| Advanced Surface Mount Assembly and Rework |
| |

Electronic Systems Technology – Level 1 SYS #258925

Develops skills in electrical fundamentals, fabrication techniques, cabling and wiring standards for cable and wire systems (copper, coax, fiber and structured cables) and basic computer skills in word processing, spreadsheets, database and the Internet.

Certificate Requirements:

| - IB | a |
|-----------------------|--|
| Course ID | Course Title |
| VOC EST50 | Electrical Fundamentals for Cable Installations |
| VOC EST52 | Fabrication Techniques for Cable Installations |
| VOC EST54 | Cabling and Wiring Standards |
| VOC EL11 VOC CSB15 | Technical Applications in Microcomputers Microcomputer Applications |
| | |

Electronic Systems Technology -Level 2

SYS #174983

This Level 2 certificate builds on the skills and concepts learned in level 1 and adds customer relations (soft skills) and the installation, calibration, setup, maintenance and troubleshooting of home theater systems, home automation and home security systems.

Certificate Requirements:

Completion of:

Electronic Systems Technology – Level 1

PLUS the followina:

| | J |
|-----------|--|
| Course ID | Course Title |
| VOC EST56 | Home Theater and Home Automation Systems |
| VOC EST62 | Electronic Troubleshooting – 1 |
| VOC TCH60 | Customer Relations for the Technician |
| VOC EST64 | Electronic Troubleshooting – 2 |
| VOC EST70 | C-7 Low Voltage Systems License Preparation |
| VOC EL61 | Electronic Assembly and Fabrication |
| VOC EL62 | Advanced Surface Mount Assembly and Rework |
| | |

Electronic Technology SYS #670897

This one-year certificate is designed for the person requiring background in the basic core courses of electronic technology without an area of specialization. The core courses provide the necessary skills for entry-level employment as an electronic technician. by written information regarding term offering and correct course selection.

Certificate Requirements:

| Course ID | Course Title | ceruna |
|-----------|--|--------------------|
| VOC EL11 | Technical Applications in Microcomputers | Course I |
| VOC EL50A | Electronic Circuits (DC) | VOC EL1 VOC EL1 |
| VOC EL50B | Electronic Circuits (AC) | VUCELI |
| VOC EL51 | Electronic Devices | VOC EL5 |
| VOC EL56 | Digital Electronics | VOC ELS |
| VOC EL61 | Electronics Assembly and Fabrication | VOC EL5 |
| VOC TCH60 | Customer Relations for the Technician | VOC EL5 |

Electronics and Computer – Engineering Technology SYS #103989

Students completing this certificate will have training in most areas of electronics including: microprocessors and interfacing, electronic communications and industrial electronic controls. Jobs include, but are not limited to:

- · Electrical and Electronics Installers and Repair
- Electrical and Electronic Engineering Technician
- Electrical and Electronic Equipment Assemblers

Certificate Requirements:

| | Course ID | Course Title | Course ID |
|------------------------|-----------|--|-----------|
| | VOC EL11 | Technical Applications in Microcomputers | VOC EL11 |
| | VOC EL12 | Computer Simulation and | VOC EL12 |
| | | Troubleshooting | |
| | VOC EL50A | Electronic Circuits (DC) | VOC EL50 |
| | VOC EL50B | Electronic Circuits (AC) | VOC EL50 |
| | VOC EL51 | Electronic Devices | VOC EL51 |
| | VOC EL53 | Communications Circuits | VOC EL54 |
| | VOC EL54A | Industrial Electronics | VOC EL54 |
| | VOC EL54B | Industrial Electronic Systems | VOC EL56 |
| | VOC EL55 | Microwave Communications | VOC EL61 |
| | VOC EL56 | Digital Electronics | VOC TCH6 |
| | VOC EL61 | Electronics Assembly and Fabrication | vocreno |
| | VOC EL74 | Microprocessor Systems | |
| | VOC TCH60 | Customer Relations for the Technician | |
| Recommended Electives: | | | |
| | VOC EDT11 | Technical Engineering Drawing I | |
| | | | |

| VOC EL62 | Advanced Surface mount Assembly and Rework |
|----------|---|
| | |

VOC EL76 Radio Telephone Communications

Electronics Communications SYS #742582

This certificate encompasses advanced coursework in electronics communications including both land-based and wireless forms of communication.

Certificate Requirements:

| Course ID | Course Title |
|-----------|--|
| VOC EL11 | Technical Applications in Microcomputers |
| VOC EL12 | Computer Simulation and Troubleshooting |
| VOC EL50A | Electronic Circuits (DC) |
| VOC EL50B | Electronic Circuits (AC) |
| VOC EL51 | Electronic Devices |
| VOC EL53 | Communications Circuits |
| VOC EL55 | Microwave Communications |
| VOC EL56 | Digital Electronics |
| VOC EL61 | Electronics Assembly and Fabrication |
| VOC TCH60 | Customer Relations for the Technician |

Industrial Electronics SYS #612116

This certificate includes electronic devices for industrial controls and motor controls; including programmable logic controls using the Allen Bradley series of PLC's running Windows ladder logic software.

Certificate Requirements:

| D | Course Title Hours |
|----|--|
| 1 | Technical Applications in Microcomputers |
| 2 | Computer Simulation and Troubleshooting |
| 0A | Electronic Circuits (DC) |
| 0B | Electronic Circuits (AC) |
| 1 | Electronic Devices |
| 4A | Industrial Electronics |
| 4B | Industrial Electronic Systems |
| 6 | Digital Electronics |
| 1 | Electronics Assembly and Fabrication |
| 60 | Customer Relations for the Technician |
| | |
| | |

OCCUPATIONAL – HEALTH CAREERS

Certified Nursing and Acute Care Nursing Assistant SYS #195661

This certificate program will prepare participants to work in both long-term and acute care facilities thus providing entry level, diverse, work opportunities in the ever growing health care field. For those planning on entering LVN or RN programs, course content may increase chances for successful admission and completion of nursing program curriculum.

These courses meet the requirements for California state certification as a CNA. The program incorporates processing of the state application and administration of the NATAP test with same day official test results for the written and manual skills examination. Verification of successful passing of the NATAP test permits immediate eligibility for employment.

All coursework can be completed within 11 weeks. Offered in Fall or Spring semesters

Participants must

- provide their own transportation and be at least 16 years of age or have a work permit
- be able to meet expenses and responsibilities incurred as part of this program.
- demonstrate proficient English/ESL verbal and written communication skills to take written exams, communicate with clients and maintain a safe clinical environment

Certificate Requirements:

Course IDCourse TitleVOC HTH01Certified Nursing AssistantVOC HTH04Acute Care Nursing AssistantVOC HTH05Health Careers Resource Center

Certified Nurse Assistant (CNA) Course Completion Only VOC HLTH 01

VOC HTH 01 is offered for "course completion only" during the Winter and Summer Intersessions. This course provides for employment in long term care only.

For further information, please contact the Health Careers Resource Center, (909) 594-5611, ext. 4788.

Health Care Interpreting SYS #425877

Health care providers receiving Federal funds are required to provide interpreters for patients who speak a language other than English at home, if speakers of that language represent a significant portion of the population in the area. Therefore, the need for trained interpreters is growing rapidly. Many health care providers are choosing to upgrade the skills of their current employers through certificate programs such as ours.

The Health Care Interpreting Certificate is an 11 month program, designed to train bilingual and bicultural students to develop the awareness, knowledge and skills for effective language interpretation in health care settings. Through academic preparation, practical skills training, and service in Continuing-based health care settings and educational organizations, HCI candidates will learn:

- Roles and responsibilities of an interpreter in health care settings.
- Basic knowledge of common medical conditions, treatments, and procedures.
- Language and cultural nuances for specific healthcare consumers and providers.
- Application of interpreting skills in English and Spanish or Mandarin.

The program begins each Fall semester and includes coursework, independent lab study, and a 6-week unpaid internship within a local healthcare facility. Certification is awarded after completion of the internship. Classes are arranged for the working student, and are scheduled evenings and Saturdays.

A cohort of students is admitted each fall semester and completes the certificate at the end of the following Summer Intersession.

Certificate Requirements:

| (Successful completion of all courses listed below) | | |
|---|--|--|
| Course ID | Course Title | |
| ESL VHLTH | English for Health Professionals | |
| (if determined necessary after evaluation of spoken and written English skills) | | |
| VOC HTH12 | Medical Terminology | |
| VOC ANA50 | Basic Anatomy and Physiology | |
| VOC HTH13 | Interpreting in Health Care Setting 1 | |
| VOC HTH14 | Interpreting in Health Care Setting 2 | |
| VOC HTH05 | Health Careers Resource Center | |
| (4 hours/week coaching sessions and 3hrs/wk arranged in HCRC, Fall and Spring semesters) | | |
| VOC HTH15 | Externship in Health Care Interpreting | |
| VOC HTH20 | Health Care Interpreter Seminar | |

Basic Requirements:

Applicants should have advanced academic proficiency in English, both spoken and written, and should be equally proficient in the language of service (Spanish or Mandarin).

To enroll in this program, you must attend an information meeting and complete the language assessment process. Registration will be offered on a firstcome, first served basis for eligible candidates attending the meeting.

For further information and mailed announcements of meeting dates, call VESL Registration at **(909) 594-5611, ext. 5236.**

OCCUPATIONAL – MANUFACTURING TECHNOLOGY

Manufacturing Technology SYS #219807

The primary purpose of this certificate is to emphasize the manipulative skills required to enter the field of machine metal worker, machine operator, production machinist, mechanical technician or machinist. There are many occupational titles and opportunities in this field.

| machinist, mechanical technician or machinist. There are many occupational titles and opportunities in this field. | | |
|--|---|--|
| Certificate Requ | irements: | |
| Course ID | Course Title | |
| VOC MF11 | Manufacturing Processes I | |
| VOC MF12 | Manufacturing Processes 2 | |
| VOC MF15 | AutoCAD 2-D | |
| VOC MF17 | 3-D CAD – Mechanical Modeling | |
| VOC MF19 | Parametric Solid Modeling for | |
| | Manufacturing | |
| VOC MF38 | MasterCAM I | |
| VOC MF38B | Advanced MasterCAM | |
| VOC MF39 | SurfCAM I | |
| VOC MF39B | SurfCAM II | |
| VOC MF58 | Blueprint Reading for Manufacturing | |
| VOC MF70 | Technical Mathematics – Manufacturing Applications | |
| VOC MF85 | Manual CNC (Computerized Numerical Control) Operations | |
| PLUS – Select 2 courses from the following: | | |
| VOC MF25 | Advanced Parametric Solid Modeling for Manufacturing | |
| VOC MF27 | AutoDesk Inventor | |

VOC WL40 Introduction to Welding

MasterCAM SYS #800999

This certificate provides a strong background in MasterCAM 2-D and 3-D, and SolidWorks software packages along with the necessary machine shop theory and practice to input sound functional data into the CAM system.

Certificate Requirements:

| Course ID | Course Title |
|-----------|---------------------------|
| VOC MF11 | Manufacturing Processes I |
| VOC MF38 | MasterCAM I |
| VOC MF38B | Advanced MasterCAM |
| | |

Parametric Solid Modeling SYS #649508

With the strong relationship between AutoCAD and manufacturing, this mini certificate guides the student through AutoDesk's 2-D and 3-D and other software packages used in the manufacturing industry.

Certificate Requirements:

| Course ID | Course Title |
|-----------|--|
| VOC MF15 | AutoCAD 2D |
| VOC MF17 | 3-D CAD — Mechanical Modeling |
| VOC MF19 | Parametric Solid Modeling for Manufacturing |
| VOC MF25 | Advanced Mechanical Desktop |
| VOC MF27 | AutoDesk Inventor |

SurfCAM

SYS #255843

Cour

VOC

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VOC

This certificate is a direct employment pathway for manufacturing students who wish to write, edit, download and run Computerized Numerical Control (CNC) machines, and provides a strong background in the basics of both manual and CNC machines. The sequence is a highly specialized occupation.

Certificate Requirements:

| se ID | , Course Title |
|-------|---|
| MF11 | Manufacturing Processes I |
| MF39 | SurfCAM I |
| MF39B | SurfCAM II |
| MF85 | Manual CNC (Computerized Numerical Control) Operations |
| | |

OCCUPATIONAL – OFFICE TECHNOLOGY

Administrative Assistant – Level I SYS #736281

Prepares students for entry-level clerical positions where keyboarding is the primary function.

Certificate Requirements:

| Course ID | Course Title |
|-----------|---------------------------------|
| VOC B005 | Business English |
| VOC CP01 | Computer Keyboarding OR |
| VOC CP01A | Computer Keyboarding AND |
| VOC CP01B | Computer Keyboarding |
| VOC CP12 | Office Computer Applications OR |
| VOC CSB15 | Microcomputer Applications |
| VOC CP28 | Office Management Skills |

Administrative Assistant – Level 2 SYS #316457

This certificate prepares students for clerical positions where office organization and transcription skills are needed.

Certificate Requirements:

Completion of:

Completion of Administrative Assistant – Level I

PLUS the following:

Course ID Course Title

| VOC BO25 | Business Communications |
|----------|------------------------------------|
| VOC CP02 | Intermediate Computer Keyboarding |
| VOC CP20 | Word for the Business Professional |
| | <u>or</u> |
| VOC CP68 | Transcription Techniques |

Data Entry SYS #234664

This certificate is intended to prepare students for employment as data entry operators, customer service representatives, receptionists, or entry-level office support staff positions. Training in a variety of computer skills is emphasized. **Certificate Reauirements:**

Course ID Course Title VOC CP02 Intermediate Computer Keyboarding

VOC CP12 Office Computer Applications <u>or</u> VOC CSB15 Microcomputer Applications VOC CP18 Data Entry

Medical Office Specialist SYS #137648

The courses in this certificate are intended to prepare students for employment as entry-level medical office assistants, medical receptionists, administrative assistantsmedical, medical office managers or other office support staff in the medical field.

Certificate Requirements:

| Course ID | Course Title |
|-----------|-----------------------------------|
| VOC BA72 | Bookkeeping – Accounting |
| VOC BO05 | Business English |
| VOC BO25 | Business Communications |
| VOC CP01 | Computer Keyboarding |
| VOC CP02 | Intermediate Computer Keyboarding |
| VOC CP12 | Office Computer Applications OR |
| VOC CSB15 | Microcomputer Applications |
| VOC CP18 | Data Entry |
| VOC CP20 | Microsoft Word |
| VOC CP28 | Office Management Skills |
| VOC CP68 | Transcription Techniques |
| VOC HTH12 | Medical Terminology |

Office Computer Applications SYS # 534470

This certificate in Office Computer Applications is customized to meet the needs of the entry-level adult student or professional, who is seeking to acquire an array of office computer skills required in a computerized office environment.

Certificate Requirements:

| Course ID | Course Title |
|-----------|-------------------------------------|
| VOC CPBC1 | Basic Computing – Level 1 |
| VOC CPBC2 | Basic Computing – Level 2 |
| VOC CPBC3 | Basic Computing – Level 3 |
| VOC CPNET | Internet Research – An Introduction |
| VOC CPCC | Creative Computing |

OCCUPATIONAL – PHOTOGRAPHICS

Computer Graphics Design / Photography SYS #235898

This certificate will enable the student to develop specific computer skills needed for employment. The Computer Graphics Certificate is an option under the Photography program. Employment will vary among several industries such as computer gaming, movie production, music video production, commercials and animation.

Certificate Requirements:

| Course ID | Course Title |
|-----------|---|
| VOC GRP1 | Computer Graphics Lab |
| VOC GRP10 | Photo Editing with Photoshop |
| VOC GRP12 | Advanced Photoshop |
| VOC GRP14 | Digital Color Management |
| VOC GRP16 | Digital Image Design |
| VOC GRP20 | Applying Photos and Images in Multimedia |
| VOC GRP28 | Digital Portfolio |
| VOC PH010 | Basic Digital and Film Photography |
| VOC PH017 | Photocommunications |

Recommended Electives:

The Photographics faculty recommends that you complement your studies with selected elective courses listed below. You should meet with a professor of Computer Graphics Design/Photography to help you determine which electives would best suit your career plans. VOC CP10 Operating the Macintosh Computer

- VOC GRP18 Advanced Image Design – 3D Modeling Technology Laboratory Studies: Black and White VOC PHO01 Photography
- VOC PHO02 Laboratory Studies: Color Photography VOC PHO04 **Digital Cameras and Composition**

Photography SYS #320382

This certificate is designed to prepare students to develop specific skills needed for employment in photography, art, cinema/animation, communications, industrial arts, graphics and journalism.

Certificate Requirements:

| Course ID | Course Title |
|-----------|---|
| VOC GRP10 | Photo Editing with Photoshop |
| VOC PH010 | Basic Digital and Film Photography |
| VOC PH011 | Advanced Professional Photography |
| VOC PH012 | Photographic Alternatives OR |
| VOC PH021 | Exploring Color Photography |
| VOC PH016 | Fashion Photography OR |
| VOC PH018 | Portraiture and Wedding Photography |
| VOC PH017 | Photocommunication |
| VOC PHO20 | Color Photography |
| VOC PHO28 | Photography Portfolio Development |
| VOC PH030 | Commercial and Illustrative Photography |
| D | |

Recommended Electives:

The Photographics faculty recommends that you complement your studies with selected elective courses listed below. You should meet with a professor of Computer Graphics Design/Photography to help you determine which electives would best suit your career plans. VOC GRP12

| VOC GRP12 | Advanced Photo Editing with Photoshop |
|-----------|--|
| VOC PHO01 | Laboratory Studies: Black and White Photography |
| VOC PHO02 | Laboratory Studies: Color Photography |
| VOC PH015 | History of Photography |

OCCUPATIONAL – SPECIAL NEEDS POPULATION

Job Readiness Skills SYS #798265

(San Gabriel Valley Training Center)

This Certificate provides hands-on job training in computer and assembly skills for the entry-level worker. Participants will improve their opportunities for employment and career advancement.

Certificate Requirements:

| Course ID | Course Title |
|-----------|------------------------|
| VOC CISCO | Computer Operations |
| VOC MFAR | Assembly/Repair Skills |

OCCUPATIONAL – WELDING **TECHNOLOGIES**

Weldina

SYS #340189

This certificate is designed to prepare students for employment in the broad field of welding, leading to occupations in manufacturing, repair and construction. It prepares students to test for the Structural Welding Certificate.

Certificate Requirements:

| Course ID | Course Title | | | |
|-----------|--------------------------------|--|--|--|
| VOC WL40 | Introduction to Welding | | | |
| VOC WL70A | Beginning ARC Welding | | | |
| | Note: Any higher level welding | | | |
| | course may be substituted for | | | |
| | VOC WLD 70A. | | | |
| VOC WL70B | Intermediate ARC Welding | | | |

Recommended Electives:

The Welding faculty recommends that students complement their studies with selected elective courses chosen from the list below. Students should meet with a professor of Welding to help you determine which of those electives would best suit your career plans.

| VOC MF70 | Technical Mathematics – Manufacturing Applications |
|-----------|---|
| VOC WL60 | Print Reading and Computations for Welders |
| VOC WL70C | Certification for Welders |

Licensed Welder SYS #919193

This certificate is designed to prepare students for entrylevel employment as a licensed welder in the broad field of welding, including manufacturing, construction, fabrication and repair. Through theoretical and hands-on skills coursework, students prepare for industry licensing with an understanding of current guidelines and standards. Particular emphasis is placed on those competencies required for certification in structural steel welding. Course sequences can be modified to reflect industry experience or other individual needs.

Certificate Requirements: Соц . 10

| Course ID | Course Title |
|-----------|--|
| VOC WL40 | Introduction to Welding |
| VOC WL50 | Oxyacetylene Welding |
| VOC WL51 | Basic Electric Arc Welding |
| VOC WL53A | Welding Metallurgy |
| VOC WL60 | Print Reading and Computations for Welders |
| VOC WL70A | Beginning Arc Welding |
| VOC WL70B | Intermediate Arc Welding |
| VOC WL70C | Certification for Welding |
| VOC WL80 | Fabrication and Construction Welding |
| VOC WL81 | Pipe and Tube Welding |
| | |

| | · · · · · · · · · · · · · · · · · · · | | | | | |
|---|---|---|--|---|---|--|
| Welder with Concentration in Automotive Welding, Cutting & Modification | Welder with Concentration in Gas Tungsten ARC Welding SYS #108929 | | Welder with Concentration in Semiautomatic ARC Welding SYS #460640 | | | |
| SYS #483743 | Preparation as | Preparation as a Licensed Welder with additional skills and | | Preparation as a Licensed Welder with additional skills and | | |
| Preparation as a Licensed Welder with additional skills | theoretical deve | theoretical development in gas tungsten ARC Welding. | | | theoretical development in Semiautomatic ARC Welding. | |
| and theoretical development in automotive welding, cutting and modification. | Completion of: | 1 | | Certificate Requirements: Completion of: | | |
| Certificate Requirements: Completion of: | | Licensed Welder Certificate | | | Licensed Welder Certificate | |
| | PLUS the follow | PLUS the following: | | | PLUS the following: | |
| Licensed Welder Certificate | Course ID | Course Title | Hours | Course ID | Course Title | |
| PLUS the following: | VOC WLD90A | Gas Tungsten ARC Welding | 54 | VOC WL90B | Semiautomatic ARC Welding Process | |
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BASIC SKILLS

BS ABE01 -- Career Information and Guidance

Orientation to the college including enrollment procedures, test score interpretation, course selection, and career information. Course includes academic placement tests and/or vocational assessments available.

BS ABE02 — Adult Basic Education

Improves basic skills of adult learners. Content includes reading comprehension, language, and mathematics. Prepares students for the General Education Development (GED) Exam and the Armed Services Vocational Aptitude Batter (ASVAB) exam.

BS ABE03 — Adult Basic Education—Leadership Development

Leadership styles and individual leadership skills including effective communication, facilitation, problem-solving, decision-making and conflict resolution. Introduction to organizational structures, governance, models and group process.

BS ABE04 — Guidance and Orientation to Special Programs

Provides an overview of special programs at Mt. San Antonio College. Information regarding the College's mission, program guidelines, regulations, and eligibility requirements are presented.

BS ABE05 — Career Development

Career assessment, research and preparation; investigates career fields to determine interest; provides information on required skills and areas for professional growth. Includes assigned time for field investigation, individual assessment and skill building.

BS ABE06 — Basic Skills Foundation

Preparation for college credit courses. Improves reading, mathematics, writing, and critical thinking by assessing current skills. Includes individual education plan to achieve career and educational goals.

BS ABE07 — Re-Entry Work Skills Needed for Today's Workforce

Development of skills necessary for employment. Topics include workplace ethics, job search techniques, resume writing and preparing for an interview.

BS CNSL5 — Career/Life Planning

A systematic approach to self-exploration and career/life planning which includes: identification of values, interests, skills, and selfmanagement style. Development of decision-making and goal-setting skills and identification of barriers to success. Explores careers and job search techniques.

BSHS ACDE — High School Academic Decathlon

Integration of high school language arts, music, art, social science, mathematics, economics and speech based on a central theme to compete in the United States Academic Decathlon.

BSHS ADRW — High School Expository Writing & Critical Reading

Prepares high school students for college level reading and writing. Develops advanced proficiency in expository, analytical and argumentative writing and emphasizes the development of critical college reading skills using a variety of fiction and non-fiction texts.

BSHS ALG1 — High School Algebra 1

Presents to high school students the key components of first year algebra. Variables and equations, real number operations, operations with polynomials, fractions, functions, systems of linear equations, inequalities, rational and irrational numbers, quadratic functions and problem solving.

BSHS ALG2 — High School Algebra 2

Presents to high school students the key components of second year algebra. Includes basic concepts of algebra, inequalities and the proof, linear equations and functions, products and factors of polynomials, rational expressions, irrational and complex numbers, quadric equations and functions, variation and polynomial equations, analytic geometry, exponential and logarithmic functions, sequences and series, triangle trigonometry, trigonometric graphs and identities, trigonometric applications, statistics and probability, matrices and determinants.

BSHS ART1 — High School Art & Creative Expression

Artistic perception, creative expression, and aesthetic value of art for high school students. Historical and cultural influences. Original productions through design and drawing using a variety of media.

BSHS ART2 — High School - Art 2

Artistic perception, creative expression, and aesthetic valuing through experiences with art for high school students. Historical and cultural context of the visual arts. Original productions in design and drawing using a variety of media.

BSHS BIO — High School Biology

Fundamental areas of life science for high school students. Characteristics of living things, simple organisms, plants, animals, human biology, cell biology, physiology, genetics, heredity, adaptation, evolution and ecology.

BSHS CHEM — High School Chemistry

Chemistry for high school students. Includes atomic and molecular structure, chemical bonds, conservation of matter and stoichiometry, bases and their properties, acids and bases, solutions, chemical thermodynamics, reaction rates, chemical equilibrium, organic chemistry and biochemistry and nuclear processes.

BSHS CHN1 — High School - Chinese 1

Fundamentals of pronunciation and grammar, practical vocabulary; understand, read, write and speak basic Chinese. Geography, customs and culture of Chinese-speaking countries for high school students.

BSHS CIV — High School Civics/American Government

Civics and government for high school students. Includes the growth of democracy, federalism, separation of powers, checks and balances, civil liberties, civil rights, civic participation and comparative government. Assessment of global perspectives, constitutional interpretations, political processes, public policy, free enterprise and cultural pluralism.

BSHS CPTC — High School Computer Technology

Includes proper technique and operations using a computer, introduction to the computer operating system, basic hardware configuration and office technology programs; document creation and editing using Microsoft Office (Word, Excel, PowerPoint); word processing, database management, spreadsheets and multimedia presentation for high school students.

BSHS DIPR — High School Diploma and Referral Program Learning

Designed to assist adult students who need coursework to complete their high school diploma requirements. Coursework is aligned to California K-12 State Content Standards. Students are awarded a high school diploma upon completion of the required credits and competencies.

BSHS EASC – High School Earth Science

Designed to stress the fundamentals of the study of Earth and of space. Earth's place in the universe, dynamic Earth processes, energy in the earth system, biochemical cycles, structure and composition of the atmosphere and California geology.

BSHS ECON — High School - Economics

Economic principles and practices for high school students. Includes scarcity and choice, opportunity cost and trade-offs, economic systems, institutions and incentives. Markets and prices, supply and demand, competition income distribution, monetary policy, international economics and the role of government.

BSHS EELA — CAHSEE Prep: English Language Arts

CAHSEE English Language Arts, semesters A/B, is designed to stress the fundamentals of the high school English language arts standards. Genres and their characteristics: word analysis, reading comprehension, literary response and analysis, writing strategies, writing conventions and writing applications.

BSHS EEMA — CAHSEE Math Prep

CAHSEE Math, semesters A/B, is designed to stress the fundamentals of the high school math standards. Number sense, statistics, data analysis probability, algebra, functions, measurement, geometry, algebra I and mathematical reasoning.

BSHS ENG1 — High School - English 1

Introduces high school students to the foundations of literature using genre and theme experiences. Includes exploration of folk tradition, poetry, fiction, nonfiction and informational and visual media. Vocabulary development, writing strategies and applications, reading comprehension, listening and speaking strategies, language conventions, listening and speaking applications, literary response and analysis.

BSHS ENG2 — High School English 2

Foundations of literature using genre and theme experiences for high school students. Exploration of oral tradition, poetry, fiction, nonfiction, drama and informational media. Vocabulary development, writing strategies and applications, reading comprehension, listening and speaking strategies, language convention, listening and speaking applications, literary response and analysis.

BSHS ENG3 — High School English 3

Foundations of literature through American literature using a historical approach for high school students. Includes basic literature genres and techniques, and time-period based literature. Pre-colonial era, the American Revolution, the New England Renaissance, Slavery and the Civil War, the Frontier Era, the Modern Era, the Harlem Renaissance and Modern Drama.

BSHS ENG4 — High School English 4

Foundations of literature through British literature using the historical approach for high school students. Social, political and intellectual trends connected with the time periods. Anglo-Saxon, Medieval period, English Renaissance, Renaissance drama, the early seventeenth century, the Restoration and the eighteenth century, the Romantic Era, the Victorian Age, contemporary British poetry and prose.

BSHS GEOG — High School-Geography

Physical and human aspects of world geography for high school students, and includes the physical features of the earth, climate and resources, and their effects on human development. Topics studied in the context of the cultural, political, historical and religious aspects of both historical and modern life throughout the world.

BSHS GEOM — High School Geometry

Foundations of geometry applications for high school students. Points, lines, planes, angles, constructions, reasoning skills and proofs, perpendicular and parallel lines, congruent triangles, quadrilaterals, proportion and similarity, right triangles and trigonometry, circles, polygons, area, volume, coordinate geometry, loci and coordinate transformations.

BSHS GRAP — High School Advanced Graphics/Printing

Advanced skills in graphics for high school students. Photo offset lithography and screen process printing. Business aspects of printing and graphics. Laboratory use of printing equipment.

BSHS HLTH — High School - Health Education

Increases high school students' awareness of health issues, includes healthy behavior vs high- risk behavior; how health issues impact the community and environment. Uses skill-building approach that includes decision-making, role modeling, critical analysis, and goal-setting toward a healthy lifestyle.

BSHS JOUR – High School Journalism

Prepares high school students to work on school newspapers. Includes writing clear, concise and interesting articles, development of grammar, spelling, punctuation, style, sentence and paragraph form, interviewing techniques, news writing skills and analysis abilities to critique newspapers and periodicals.

BSHS KEY — High School - Typing/Keyboarding

Develops the skill of keyboarding for high school students. Emphasis will be placed on learning alphabetic and numeric keys by touch using appropriate techniques. Students will build on basic skills to improve speed and accuracy in order to create, format and edit a variety of documents.

BSHS LSC — High School Life Science

Fundamental characteristics of living things, simple organisms, plants, animals, human biology, physiology, genetics, heredity, adaptation, evolution and ecology for high school students.

BSHS MTH2 — High School General Math

Basic mathematical foundations needed for daily life and higher level math courses for high school students. Includes concepts, methods and applications of basic math skills. Topics include whole numbers, fractions, decimals, measurement, basic geometry, basic strategies, ratios, percentages, beginning pre-algebra and preparations for algebra, various consumer-related topics and problem-solving.

BSHS MUSC — High School - Music Appreciation

Historical, cultural and genre-based aesthetic valuing of music for high school students. Vocabulary, interaction of words and music, influence of religion, theater, government and culture on musical style.

BSHS NS1 — High School - Natural Science 1

Integration of biological, physical and earth science. Introduces high school students to scientific measurement and computation, the use of scientific laboratory equipment, and basic scientific writing. Addresses overall skill sets in the areas of reading, writing and note-taking as it relates to science.

BSHS NS2 — High School - Natural Science 2

Integration of advanced biological, physical and earth science. Introduces high school students to advanced scientific measurement and computation, the use of scientific laboratory equipment and basic scientific writing. Addresses overall skill sets in the areas of reading, writing and note- taking as it relates to science.

BSHS PHIL – High School Philosophy

Introduces high school students to the terminology, problems and major philosophers from ancient to modern times. Includes the different fields of philosophy and the different systems within those fields. Emphasis will be placed on ethics and morals as they relate to students understanding and analysis of events and theories.

BSHS PHSC — High School Physical Science

Presents to high school students an overview and introductory understanding of physical science theories and how they apply to the real world. Includes the structure of atoms, the characteristics and applications of matter, chemical reactions, motion, force, energy, work and machines, waves, sound, light and mirrors, magnetism, electricity and scientific investigation.

BSHS PLNG — High School Planning and Guidance

Compliments existing school guidance and planning activities and motivates high school students to utilize those resources to their best advantage. Covers the challenges faced by students at the end of high school careers.

BSHS PREA — High School Pre-Algebra

Designed to help high school students transition from arithmetic to algebra. Includes concepts, methods and applications of pre-algebra. Topics include operations with integers, expressions, equations, inequalities, percents, proportions, graphing, computational skills and problem-solving skills.

BSHS PSY — High School Psychology

Introduces high school students to the methods, facts and theories of the behavior and processes of human beings and animals. Includes theories and characteristics of the history of psychology, research and statistics, child and adult development, sensations, perceptions, cognition, motivation, behavior, personality, abnormal behavior, individuality versus group identity and behavior and therapy.

BSHS SOC — High School Sociology

Concepts and theories of social interaction for high school students. Includes the theories, characteristics and implications of culture, socialization, society groups, deviations and control, social stratification, race, gender, age, family, education, politics, religion, sports and change.

BSHS SPCH – High School Speech and Communication

Designed to develop the aspects of oral communication including voice, diction, poise and ease by preparation and practice in making small speeches, and participating in discussions, debates and oral interpretation. High school students will improve their writing and speaking organization through selection and arrangement of material, through transitions and rhetorical effect.

BSHS SPN1 — High School Spanish, Conversation and Writing

Fundamentals of pronunciation and grammar, practical vocabulary, and the ability to understand, read, write and speak basic Spanish for high school students. Geography, customs and culture of Spanish-speaking countries.

BSHS SPN2 — High School Spanish 2

Designed for high school students to advance the fundamentals of pronunciation and grammar, practical vocabulary and the ability to understand, read, write and speak geography, customs, Spanish literature and culture of Spanish-speaking countries.

BSHS SS — High School - Single Survival "On Your Own - Preparation for Adult Living

This course increases student knowledge and ability in skills necessary for everyday living. High school students determine goals and values, education choices, career options, money management, health care and personal needs.

BSHS SSK — High School - Study Skills

Designed to help high school students become better learners and prepare for success in school and at work. Covers strategies and methods to enhance the students' ability to study and learn both individually and in a group. Topics include note taking, time management, test taking, organization, memorization, learning styles and conducting research.

BSHS STG — High School Stagecrafts

Aspects for high school productions and creation of theatrical support services. Set design, set painting, construction, lighting and sound design and operations. Costume and make-up application, theater operations and stage management.

BSHS TAL2 — High School Topics in Algebra 2

Preparation for success in high school Algebra 2. Focuses on the basic and introductory concepts, formulas and standards of Algebra 2, including solutions of linear and quadratic equations, graphing, exponential functions and the complex number system.

BSHS TGEO — High School Topics in Geometry

Preparation for success in high school geometry. Focuses on the basic and introductory concepts, formulas and standards of geometry, including points, lines, planes, angles, reasoning skills and proofs, perpendicular and parallel lines, triangles, quadrilaterals, polygons, area and volume.

BSHS USH — High School United States History

Designed for high school students to study various themes in history in order to examine the past from pre-colonial to the modern era. Includes the examination of politics and history, the role of ideas, economics and history, and the importance of cultural development. Assessment of religion in history, the role of individuals, the impact of science and technology, the environment and history and social life.

BSHS VDEO — High School Video and Media Production

Basics of video production and software. Includes storyboards, directing, filming, sounds, lighting, transitions, titles, voice-overs, music, film analysis, editing and producing software as appropriate for high school students.

BSHS WHS — High School World History

Gives high school students an understanding of humanity through the basic themes present in history: economics, politics, the roles of ideas, the importance of cultural development, religion, the roles of individuals, the impact of science and technology, geographical impact and cultural development. Students will also study pre-history to the modern era.

BSHS WREX — High School Expository Writing

Preparation for success in expository writing for high school students. Focuses on developing essay writing including introductory paragraphs, body paragraphs and concluding paragraphs in expository, descriptive, narrative and argumentative essays.

BS LANG1 — Language Skills Laboratory

Designed for ESL students either enrolled in a ESL class or awaiting admission, to enhance pronunciation, listening, writing and comprehension skills. Also open to AMLA, Foreign Language, American Sign Language students to enhance skills in the primary target language.

BS LANG2 – ESL Computer/Language Skills Lab

Enhance student's communication skills by providing access to the internet, thereby completing assignments for courses offered throughout the college.

BS LRN01 — Short Term Review

Intensive review in the following subjects: reading, comprehension, vocabulary, grammar, basic math, pre-algebra, and algebra. Computer programs, instructional materials, and individual assistance are provided.

BS LRN03 — Math Skills Review

Increase basic math knowledge and reduce math anxiety. Topics include fractions, decimals, ratios, proportions, percents, and the application of these skills in life and work situations.

BS LRN06 — Personal Computer Applications

Increase typing and ten-key speed using computer software. Includes current word processing, spreadsheet, database software, keyboarding techniques, including correct posture; introduction to e-mail and the Internet; time management, decision-making, problem-solving and creative thinking.

BS LRN50 — Learning Support Laboratory

Learning and workplace skills are enhanced by computer use and instruction for students enrolled in or seeking enrollment in a college instructional program.

BS LRN72 — Reading Acceleration

Provides instruction and practice in techniques of reading acceleration and variable reading speeds. Students who repeat will improve reading speed and comprehension rates.

BS LRN76 — Improving Reading Comprehension

Prepares students for reading informational materials. Topics include spelling, reading comprehension, dictionary usage and how to read a textbook.

BS LRN81 — Improving Writing

Offers assistance to students who wish to improve prewriting, writing, editing and revising. Provides instruction in content and structure of sentences, paragraphs and essays; emphasizes development in writing through the integration of grammar and critical thinking.

BS MTH01 — Developmental Mathematics Concepts and Application

Hands-on activities and practical applications of algebraic principles: elementary geometry, signed numbers, ratio and proportion, factoring, pre-algebra, linear and quadratic equations, complex numbers, graphing, functions, sequences, linear and non-linear inequalities and systems, progressions, and sigma notation.

BS WRT2 — Basic Writing Skills Development - Basic Skills Development in Reading and Writing

Enhance basic skills in reading and writing, via the use of computerassisted learning, e-mail and on-line tools.

BS TR10A — Introduction to Tutoring

Introduction to tutoring, with an emphasis on tutoring strategies, problem solving, and working with a diverse student population.

BS TR10B — Tutoring in the Language Arts

Prerequisite: Permission of Tutorial Specialist Tutoring in the language arts with an emphasis on approaches to working with students on written drafts and addressing the needs of non-native speakers.

BS TR10C — Tutoring as a Supplemental Instructor

Permission of Tutorial Specialist recommended Tutoring as a Supplemental Instructor with an emphasis on tutoring in the classroom and in small groups under the supervision of a designated instructor.

BS TR10D — Tutoring in Mathematics

Tutoring in mathematics with an emphasis on strategies to promote active learning using mathematics and dealing with specific obstacles in developmental algebra.

BS TR01 — All Subject Tutoring

Assistance in basic English and mathematics skills through tutoring and computer-based learning. Tutorial assistance in other subject areas is also available.

BS TR02 — Tutoring Techniques

Explores learning theories and tutoring techniques for tutoring individuals and small groups. Emphasis is placed on encouraging independent learning.

CITIZENSHIP

CITZ NAT — Citizenship for Naturalization

Intermediate and advanced students prepare for the interview for United States citizenship.

DISABLED STUDENTS

DSPS ELL01 — Lifelong Learning for the Special Needs Population Educational activities for special needs students emphasizing physical, cognitive, social and emotional skill development.

DSPS LRND1 — Clinical Speech Instruction

Designed to accommodate individual and group instruction for adults with speech and/or learning problems. Includes individual evaluation and speech improvement plan. Disorders addressed include phonology, fluency, voice and resonance, hearing impairment, cerebral vascular accident and acquired brain injury. Instruction is not available for students with dialectal problems.

DSPS LRND2 — High Tech Center Tutorial/Assistance Class

Advisory Prerequisite: Students must be referred by a counselor in Disabled Student Programs and Services (DSP&S) in order to register for this class.

Designed for students with identified disabilities who have at least three academic units at Mt. SAC. Using adaptive technology, alternate media and specialized support, offers techniques and strategies to maximize abilities in academic classes. Students are required to provide their own data disks.

DSPS LRND3 — Adaptive Academic Preparation

Designed for students who have been accepted into the Brain Injury Program at Mt. SAC. Includes specialized instruction and the use of computer software to improve cognitive skills (attention, memory, reasoning, etc.) needed for academic and/or vocational goals. English as a Second Language

ESL LANG3 — English for Specific Uses (ESL)

Advanced ESL students improve speaking, writing, vocabulary and SCANS competencies related to vocations. Includes critical thinking, customer service, teamwork and autonomous learning strategies.

ESL LVL1 — ESL - Level 1

Beginning to low English students build vocabulary, grammar and communication skills.

ESL LVL2 — ESL - Level 2

High beginning English students build upon their base of vocabulary and improve grammar understanding through practice of listening, speaking, reading and writing skills. Students work independently and in groups to develop projects and make presentations that are meaningful to them.

ESL LVL3 — ESL - Level 3

Low intermediate level students improve English communication and grammar through practice of listening, speaking, reading and writing skills. Activities include team projects, presentations and exams in preparation for academic/vocational success and encourage civic participation.

ESL LVL4 — ESL - Level 4

High intermediate level students improve English communication and grammar through practice of listening, speaking, reading and writing skills. Activities include team projects, presentations and exams, in preparation for academic/vocational success and encourage civic participation.

ESL LVL5 — ESL - Level 5

Low advanced level students improve English communication and grammar understanding through practice of listening, speaking, reading and writing skills. Activities include team projects, presentations and exams in preparation for and academic/vocational success and encourage civic participation.

ESL LVL6 — ESL - Level 6

High advanced level students improve English communication skills and prepare to transition into academic, vocational programs, or general community classes. Activities include teamwork, projects, presentations and exams to ensure life-long learning, civic participation and overall success.

ESL PLVL1 — ESL - Pre-Level 1

Literacy-level English students build a base of vocabulary and grammar through practice of listening, speaking reading and writing skills.

ESL SPKA — ESL - Speaking A

Beginning level students develop English listening comprehension and speaking fluency. Activities include talking in small groups or with partners, listening and responding to simple conversations, short presentations and pronunciation practice.

ESL SPKB — ESL - Speaking B

Intermediate level students improve English oral proficiency in areas of pronunciation, listening comprehension and speaking skills. Through group discussions and short presentations, students practice speaking with clarity and fluency, present their ideas and opinions, and make cultural comparisons.

ESL SPKC — ESL - Speaking C

Advanced level students expand listening and speaking strategies to facilitate academic preparation, workplace advancement and civic participation. Focus is on fluency, grammatical accuracy and appropriate social register. Activities include use of authentic material in group tasks and class presentations.

ESL TOEFL — TOEFL Preparation

Advanced ESL students improve grammar, speaking and writing in preparation for standardization tests such as TOEFL.

ESL VHLTH — **English As A Second Language for Health Professionals** Advanced ESL students improve medical vocabulary and English skills for healthcare situations.

ESL WRTA — ESL Writing - A

Beginning level students develop reading and writing skills that set the foundation for their English literacy. Material is based on familiar topics and American customs. Focus is on vocabulary expansion, introduction to reading passages, and accuracy in sentence-level writing.

ESL WRTB — ESL Writing – B

Intermediate level students improve English reading and writing proficiency through a variety of reading material and writing topics. Students gain fluency and confidence through abridged book reports, process writing and peer editing, primarily at the paragraph level.

ESL WRTC — ESL Writing - C

Advanced level students expand English reading and writing proficiency through a range of genres. American-style process writing is practiced in order to facilitate academic preparation and workplace advancement. Focus will be on interpretation of authentic material and development of editing strategies.

HEALTH AND SAFETY

HLSF PEWT — **Physical Fitness and Conditioning - Weight Training** An over-all fitness and physical conditioning program using weight machines, free weights and Olympic lifting exercises. This course is intended for the beginner to advance exerciser. Improved results will be achieved through active participation for students who repeat the course.

HLSF PEWRS — **Physical Fitness and Conditioning** – **Wrestling** Wrestling to develop overall fitness and conditioning. Appropriate for beginning and advanced practitioners. Improved results will be achieved through active participation.

HLSF PEFTB — Physical Fitness and Conditioning - Football

An increased level of physical conditioning will be attained through systematic and progressive exercises. These exercises include stretching, controlled running, muscular strength and power through weights, speed and agility developed through drills.

HLSF PEWEX — Water Exercise - Phase I

Water exercise program that provides an individual workout with an emphasis on strength development, cardiovascular fitness improvement and increased flexibility. Lap swimming lanes are available. Improved results will be achieved through active participation for students who repeat the course.

HLSF PEWP — Physical Conditioning - Water Polo

Water Polo training to improve overall fitness and conditioning. Water polo drills and dry land exercises will be used to improve participant's strength, agility and aerobic condition.

OLDER ADULTS

OAD AT14 — Introduction to Art Fundamentals

An entry level course designed for non-art majors emphasizing creative expression through the visual arts. Painting, drawing, printmaking, and sculpture are explored to introduce the student through various media to the arts.

OAD AT15B — Drawing: Beginning

Drawing emphasizing further development of perceptual and technical skills attained in ARTD 15A. Students will advance their abilities in dry and fluid media, while expanding their use of the formal elements and principles in both representational and expressionistic styles.

OAD AT20 — Intro Exhibition Design and Professional Practice

Provides knowledge and hands-on skills in exhibition design and installation to display an esthetically effective art exhibition. Students will be familiarized with the necessary practical knowledge used by an emerging artist; historical and contemporary terms, examination of culture and universal symbology and application, issues, theories, movements and media in the context of art exhibition productions.

OAD AT25A — Painting

Emphasizes creative self-expression through the painting media. Students will develop the ability to conceptualize and solve compositional and technical painting problems.

OAD AT30A — Ceramics

An exploration of ceramic techniques and creative expression. Includes vocabulary, theory, elements and principles of ceramic form through projects and critique.

OAD AT33 — Ceramics: Hand Construction

Basic methods of hand construction. Special projects in structural, architectural and sculptural form.

OAD AT40A — Sculpture - Beginning

An overview of traditional and contemporary approaches to sculpture. Emphasizes principles of sculptural design and concept development. Includes exploration of technique and materials as an integral part of creative expression.

OAD AT41A — Sculpture - Life

Modeling from the human figure with emphasis on composition, gesture, motion and human anatomy as it informs sculptural form. Development of perceptual and technical skills in clay modeling from the human figure.

OAD AT41B — Sculpture - Life

Sculptural study of human figure with emphasis on composition and human anatomy. Advanced projects using materials and techniques suitable for the human form. Students who repeat this course will further develop perceptual skills in clay modeling from the human figure.

OAD AT42 — Sculpture: Mold Making

Construction and use of flexible and plaster molds. Students who repeat this course will improve skills by further instruction and practice.

OAD AT43 - Introduction to Printmaking

Introduction to creative techniques in fine art printmaking using relief and intaglio projects. Emphasis is on developing skills, vocabulary and critical understanding and analysis of its aesthetics, historical context, cultural traditions and craftsmanship through projects, discussion and oral/written criticism.

OAD AT44 — Printmaking - Relief and Lithography

Creative techniques in fine art printmaking focusing on lithography. The possibilities of combination of planographic with relief methods will be explored. Emphasis is on developing skills, vocabulary and critical understanding and analysis of its aesthetics, historical context and craftsmanship through projects, discussion and oral/written criticism.

OAD AT45 - Printmaking - Collagraph/Monotype/Silkscreen

Creative techniques in fine art printmaking using collagraphs, monotypes, monoprints and stencil projects. Emphasis is on developing skills, vocabulary and critical understanding and analysis of mixed media printmaking's aesthetics, historical context and craftsmanship through projects, discussion and oral/written criticism.

OAD AT46 — Sculpture: Special Effects Makeup

Advisory Prerequisite: OAD AT 41A and/or OAD AT42 Modeling, molding, casting and application of special effects make-up appliances and masks to the human anatomy as it informs sculptural form and specialized molding and casting techniques and materials.

OAD ELLO2 — Lifelong Learning for Older Adults - Physical Fitness Maintain and/or improve overall physical fitness through a variety of conditioning exercises specifically designed for the older adult.

OAD ELLO3 — Lifelong Learning for Older Adults - Crafts

Develops creative and artistic skills through visual and fine motor coordination utilizing various arts and crafts material. Students will learn skills to make crafts while sharing individual artistic expertise with peers.

OAD ELLO4 — Lifelong Learning for Older Adults

Improve and/or maintain the mental fitness of the older adult through educational activities promoting critical thinking skills. Students will be presented with mental exercises and intellectual stimulation to enhance cognitive skills.

OAD ELL05 — Lifelong Learning Through Current World Events

Presents current events in a variety of ways to provide education about local, national and world issues to promote mental fitness of the older adult.

OAD ENG8A - Creative Writing - Fiction

Elements, processes and techniques of fiction writing. Includes genre, settings, point of view, character sketch, plot development, description and dialogue with an emphasis on student development as a writer of fiction through practice and discussion.

OAD ENG8B – Creative Writing – Poetry Examines the student's development as a poet.

Examines the students development as a

OAD FNA01 — China Painting

Introduces the fine art of china painting through the basic understanding of the color wheel, design, etching on china, gold work, luster, raised paste for gold, matte colors and use of the kiln. Students progress at their own rate and will receive a supply list at the first class meeting.

OAD FNA03 — Oil Painting

Provides the fundamental principles of drawing, design, color and composition for oil painting. Emphasis will be on creative expression to develop primary skills and techniques for oil painting as they relate to composition and technique. Students will receive a supply list at the first class meeting.

OAD FNA04 — Watercolor Painting

The fundamental principles of watercolor painting. Emphasis will be on creative expression to develop primary skills for watercolor painting as they relate to composition and technique. Students will receive a supply list at the first class meeting.

OAD FNA05 — Creative Writing (Writing Your Autobiography)

Write about your own memories and experiences for the purpose of creating articles, souvenir memoirs, and construction of your life story through discussion, sharing of experiences and recalling past events. This class is suitable for all levels of writers; includes writing exercises and analysis. Long-hand method of writing will be used.

OAD FNA32 — Drawing - Beginning Through Advanced

Drawing while emphasizing the development of perceptual and technical skills. Students will advance their abilities in dry and fluid media while expanding their use of the formal elements and principles. The development of works of art will utilize observation of single objects, still life, and landscape for representation and expression. Students will receive a supply list at the first class meeting.

OAD FKA04 — Quilting

Learn patchwork, appliqué, and various ways to form quilting patterns and gain working knowledge of hand or machine quilting. Information on materials, equipment, planning, design and general methods in creating a quilt will be covered. Students will receive a supply list at the first class meeting.

OAD HTH02 — Healthy Cooking for Older Adults

Plan simple, healthy meals for the older adult. Identify how to stock a kitchen with quality foods as dietary guidelines are presented. Includes easy microwave oven cooking, cuisine for singles and doubles, and meals to cook once and eat twice! Food safety concerns will also be discussed.

OAD MOX01 — Mobility Through Exercise Physical Conditioning

For older adults who are interested in improving their physical condition. Involves all major muscles promoting strength and toning, improving range of motion and flexibility, and increasing endurance and coordination. Students are encouraged to participate at their own level. Appropriate music is utilized to enhance student motivation and class participation.

OAD MOXO2 — Mobility Through Exercise - Slow Stretch / Thai Chi Movement

Designed to increase strength and agility while improving peace of mind and reducing stress. Involves low impact movements that flow at a smooth, even tempo, making for improved balance as body weight is shifted. The movements will result in high levels of body control and increased powers of motion concentration. Several different moves of Tai Chi will be experienced.

OAD MOX04 — Mobility Through Exercise - Yoga

Yoga is an ancient system of gentle stretching exercises and breathing techniques that enhance physical well-being. Focuses on Yoga methods that improve stamina, lung capacity, flexibility, muscle tone, circulation, cardiovascular performance and respiration.

OAD MOX06 — Mobility Through Exercise - Water Exercise

This low impact water exercise program involves aerobic conditioning, strength training, and stretching in a water environment which minimizes impact on joints and the body. Swimming skills are not required for participants. This is not an individual swim class.

OAD MOXO7 — Mobility Through Exercise - Physical Fitness Using Music to Enhance Skill Development

Enables students to increase balance, coordination, strength, flexibility and memory function through a progressive fitness program using music to enhance skill development.

OAD MOX09 — Mobility Through Exercise - Strength Training Using Resistance Bands

Resistance training for isolation of targeted muscle groups to increase strength, range of motion, flexibility, and increase bone density using toner bands. Designed to challenge all major muscles. Students are encouraged to participate at their own level. In addition, slow stretching and breathing techniques will be taught.

OAD MOX10 — Beginning Self-Defense for Older Adults

Effective self-defense techniques for older adults to use at home, work, traveling or just out and about on a daily basis. The focus is on techniques that are highly effective and easy to learn, with no prior experience necessary. Learn self-defense techniques and gain knowledge to reduce your risk of becoming a victim of crime.

OAD MOX11 — Fall Prevention: Balance and Mobility

Addresses, particularly for older adults, the risks and fears associated with falling. Includes setting realistic goals, minimizing environmental risks and balance exercises.

OAD MUSCE — Creative Expression through Music

Promotes creative expression through music and includes discussion, singing, listening and interaction for older adults. Concentration will be on various musical styles and historical periods in which music plays specific roles.

OAD MS01 — Concert Music

Lectures, demonstrations, recitals and media presentations by faculty, guest artists and students. Course content will differ each time it is offered. Attendance at live concerts may be required.

OAD MS19 — Elementary Organ

Group and individual instruction in registration, pedal technique, and interpretation of standard organ literature will be given in this course.

OAD MS25A — Jazz - Improvisation (Instrumental Or Voice)

Styles and techniques of improvisation. Each student must furnish his/her own instrument and be able to perform individually and with the class. Students who repeat this course will improve skills through further instruction and practice.

OAD MS25B — Jazz Improvisation

Styles and techniques of improvisation. Each student must furnish his own instrument and be able to perform individually and with the class.

OAD MS30 — Collegiate Chorale

A non-auditioned mixed choral ensemble open to all students. A variety of mixed choral repertoire will be studied and performed, from music of the Renaissance to contemporary Pop, Broadway, and Vocal Jazz. Rehearsal time will also be devoted to vocal development and improving music theory skills.

OAD MS32 — Masterworks Chorale

This SATB choir will perform major choral works ranging from the Baroque era to the 20th century. Although there is no audition required for this group, prior choral experience is preferred. In addition to preparation and performance of quality choral literature from all genres, time will be spent on vocal development and music theory.

OAD MS36 — Concert Band

The group will study and perform standard and new band literature. Experience will be given to capable student directors, soloists, arrangers, and composers. Attendance is required at all public performances.

OAD MS38 — Ensemble

The study and performance of music written for small ensembles. Students who repeat this course will improve skills through further instruction and practice.

OAD MS39 — Laboratory Band

Study and performance of jazz and popular music of all types. Provides the necessary training and experience for MUS 47, Jazz Band, or for the improvement of skills necessary for employment in the field. Students who repeat this course will improve skills through further instruction and practice.

OAD MS47 — Jazz Band

Lectures, demonstrations, recordings, rehearsals, and performance will cover all types of popular music and jazz. Preference will be given to performers playing more than one instrument.

VOC ESD02 — Production of Boutique Craft for Retail Sales

Prepares the student to create individual designs for mass production and/or one-of-a-kind crafts. Marketing, pricing, cost analysis and proper care of equipment included. Students will receive a supply list at the first class meeting.

VOC ESD03 — Lettering Styles and Advertising Calligraphy

Presents styles of calligraphy as they are used in the arts, media, and advertising fields. Includes proper placement and proper size of lettering styles. Students will receive a supply list at the first class meeting,

VOC ESD05 — Intermediate Ceramic Productions

Includes the techniques used to create finished ceramic pieces; including the art of chalking on ceramics in the bisque form and wood surfaces by using oil based stains, metallic stains, colored creams, rubs and metallic and bronze finishes. Finalizing some pieces with electrical parts and mounting on wood bases will be considered. Discusses proper equipment usage and maintenance. Marketing and cost analysis will be covered. Students will receive a supply list at the first class meeting.

VOC ESD06 — Craft Painting for Business Opportunities

Painting on all types of surfaces including fabric, glass, wood, tin, plaster and plastic. Creativity and individual expression will be encouraged. Special painting techniques on each type of surface will be demonstrated and discussed. Includes product design, marketing and proper use of equipment and maintenance. Marketing and cost analysis will also be covered. Students will receive a supply list at the first class meeting.

VOC ESD07 — Handcrafted Needlework for Retail Sales and Boutiques

Presents basic needlework techniques in knitting, crocheting, needlepoint, crewel embroidery, and plastic canvas for mass production as well as one-of-a-kind creations. Students solve fitting problems and make professional-looking garments. Includes proper yarn selection, pattern selection, proper maintenance of equipment and organization of work. Students will receive a supply list at the first class meeting.

VOC ESD08 — Jewelry Production and Design for Retail Sales

Wire-worked jewelry design and production for marketing. Techniques such as wire wrapping, coiling, hammering, etc., which may incorporate beads, cabochon stones and free-form gemstone slabs will be covered. Discussion of proper equipment and maintenance, proper display for sales purposes, pricing and inventory control will be taught. Students will receive a supply list at the first class meeting.

VOC ESD09 — Sewing and Design

Presents basic sewing techniques for mass production as well as one-ofa-kind creations. Learn to solve fitting problems and make professional looking garments. Tailoring, pattern making, cutting and style design will be taught. Students are responsible for their own supplies and equipment. Proper maintenance of equipment and organization of work will be covered. Students will receive a supply list at the first class meeting.

VOC ESD10 — **Beginning Decorative Art Production for Retail Sales** Introduction to acrylic paints and associated mediums including

painting on a variety of surfaces. The use of tole decorative art brush strokes will be incorporated into a step-by-step method on specific projects. Marketing and pricing of finished products will be presented.

VOC ESD11 — Intermediate Decorative Art Production for Retail Sales

Use of acrylic paints and associated mediums including painting on a variety of surfaces. Patterns are provided for student's use. More advanced tole decorative art brush stroke techniques will be incorporated into a step-by-step method on specific projects. Includes marketing and pricing of products. Students will receive a supply list at the first class meeting,

VOC ESD15 — Jewelry/Lapidary Production Design

Jewelry making and stone cutting/polishing, lapidary work. Includes appropriate maintenance of equipment and workshop safety. Includes outings to jewelry suppliers, shows and rock hunting trips.

PARENT EDUCATION

PAED CHLD1 — Parent Participation Pre-School

Children's developmental stages and parenting skills through participation in discussions and classroom activities. Parents attend with their children, ages 2-5. Children participate in structured activities in preparation for future educational experiences.

OCCUPATIONAL — ADMINISTRATIVE JUSTICE

VOC ADJ01 — **The Administration of Justice System** History and philosophy of the justice system, subsystems, roles, relationships and theories of crime causation and correction.

VOC ADJ02 — **Principles and Procedures of the Justice System** Roles and responsibilities of each segment of the justice system; additional focus on relationships between system segments and subsystem procedures from initial incident to final disposition.

VOC ADJ03 — **Concepts of Criminal Law** Provides an overview of California criminal law from the perspective of the law enforcement officer.

VOC ADJ04 — Legal Aspects of Evidence

Introduction to criminal evidence, including admissibility, witness competency, privileged communication, hearsay and collection and preservation of evidence.

VOC ADJ05 — Community Relations

A comprehensive exploration of community problems designed for individuals in public service with major emphasis on communityoriented policing. Reviews public service image, diversity issues, human relations and reactions, crisis areas and confrontations with the public.

VOC ADJ06 — Concepts of Enforcement Services

Responsibilities, techniques and methods of police patrol with emphasis on the basic knowledge required in handling common police occurrences.

VOC ADJ13 — Concepts of Traffic Services

A study of traffic management, collision reconstruction, collision factors including law violations and human factors, collision evidence, traffic enforcement techniques and specialization in traffic management. Emphasis is placed on service to the motoring public.

VOC ADJ20 — Principles of Investigation

This course covers the fundamentals of investigation including crime scene search and recording; collection and preservation of physical evidence; modus operandi; scientific aids; sources of information; interviews and interrogation; follow up and case preparation.

VOC ADJ38 — Narcotics Investigation

Investigation techniques for drug enforcement. Drug effects, use of informants, amendment issues and handling of evidence.

VOC ADJ59 — Gangs in the Community/Corrections

Exploration of contemporary street and prison gang issues, including historical and current perspectives, prison gang dynamics, identification of characteristics, cultural differences of gang philosophy. Includes law enforcement/corrections role in intervention/suppression.

VOC ADJ68 — Administration of Justice Report Writing

Techniques for proper documentation of crime reports and related law enforcement records. Use of simulations and role-playing.

VOC ADJ74 — Vice Control

Code and case law dealing with vice; detection and suppression; apprehension and prosecution of violators; special consideration of laws dealing with gambling, prostitution, and sex crimes.

OCCUPATIONAL — AGRICULTURAL SCIENCE

VOC AGG01 — Food Production, Land Use and Politics - A Global Perspective

Surveys the world's food producing systems in terms of economic, political and cultural forces. Emphasizes ethical, sustainable food producing agriculture.

VOC AGN01 — Animal Science

Fundamental problems and essential concepts of animal production. Includes the study of the types of domestic animals and their utilization by humans.

VOC AGN02 — Animal Nutrition

Composition of feeds and their utilization by domestic animals, including digestive physiology, animal assessment, feed appraisal and compiling of rations.

VOC AGN51 — Animal Handling and Restraint

This course will cover the methods of properly handling large and small animals and will include chemical and physical techniques of restraint.

VOC AGN94 — Animal Breeding

The science of animal breeding, including fundamentals of inheritance, reproduction and breeding systems for domestic animals. Artificial insemination, embryo manipulation and current topics in reproductive biotechnology will also be included.

VOC AGL12 — Exotic Animal Management

Care and management of exotic and alternative livestock species with emphasis on identification, health maintenance, handling techniques, nutrition and reproduction. Includes analysis of industry trends and principal marketing uses of exotic animals.

VOC AGL14 — Swine Production

A study of the various types of swine enterprises and the ways and means of entering them. Swine management, including handling, feeding, breeding, furrowing, butchering, and marketing. Practical skills are taught using the college farm.

VOC AGL16 — Horse Production

Selection, utilization, and management of the light horse emphasizing recreational aspects of the modern horse. Laboratory work includes actual experience in the care of horse and tack.

VOC AGL17 — Sheep Production

A study of the various types of sheep enterprises and the ways and means of entering them. Includes class, laboratory and project work concerning all phases of sheep management, sheep handling, feeding, shearing, breeding, lambing and marketing. Practical skills taught on the school farm and sheep farms in the area.

VOC AGL18 – Horse Ranch Management

Skills and knowledge to work on or manage a modern equine ranch, including management of the breeding farm, farm layout, estrous cycles, breeding problems and stallion care.

VOC AGL19 - Horse Hoof Care

Emphasizes proper horse hoof care; shoeing, trimming and disease recognition and control.

VOC AGL20 — Horse Behavior and Training

Breaking and starting young horses. Concentrates on halter training of foals, ground work on yearlings, and green-breaking two-year-olds and up. Includes lunging techniques, driving, and breaking to a saddle. Training in collection, turning, backing, leads, and trailer loading.

VOC AGL30 — Beef Production

Principles and practices in the selection and management of feeder, market and breeding beef cattle. Economics of production, utilization of farm-grown feeds, and feedlot operations will be stressed.

VOC AGL34 — Livestock Judging and Selection

Study of form and appearance of farm animals as related to their function. Includes judging of breeding and terminal livestock as well as carcass evaluation.

VOC AGL96 — Animal Sanitation and Disease Control

Prevention and control of infectious diseases affecting domestic animals, including basic disease concepts, transmissions of infectious diseases, principles of sanitation and fundamentals of immunology.

VOC AGL97 — Artificial Insemination of Livestock

Theory and application of artificial insemination of livestock, including semen evaluation and processing. Pregnancy diagnosis will be covered as an aid to the inseminator.

VOC AGR-G — Home Gardening

Includes lectures, demonstrations and hands-on experience in organic gardening, indoor plants, introduction to bonsai, fruit orchards, traditional gardening and information on pesticides. The study of design, propagation methods, pruning, fertilizing, and a general understanding of horticulture will be included.

VOC AGR01 — Horticultural Science

The basic horticulture skills and techniques for use in gardening, nursery, and landscape applications. Emphasis on propagation, cultural practices, and the study of plant relationships, structure, growth and development.

VOC AGR02 — Plant Propagation/Greenhouse Management

Plant propagation and production practices with emphasis on florists' plants, woody ornamentals and fruits. Commercial techniques include seed propagation, cuttings, grafting and budding, layering, fern sporing and division. Stresses greenhouses and other environmental structures for plant propagation and production.

VOC AGR04 — Park Management

Management and operation of municipal park departments. Includes the development of budgets, purchasing, park policies, planning and scheduling.

VOC AGR05 — Park Facilities

Management and operation of different types of park facilities. Includes the management of sports fields, recreation centers, campgrounds, aquatic facilities and golf courses.

VOC AGR13 — Landscape Design

Fundamentals and implementation of landscape design. Principles of design, the design process, drafting, graphics, site evaluation, landscaping materials, and plant usage. Projects emphasize residential and small commercial sites.

VOC AGR15 — Interior Landscaping

Design, Installation and maintenance practices used in interior landscaping. Includes identification, culture and care of plants suitable for interior use.

VOC AGR24 — Integrated Pest Management

Identifies common agricultural pests in Southern California and analyzes physical, biological and chemical pest control principles and practices. Stresses use, safety, equipment, laws, and regulations of pesticides.

VOC AGR25 — Floral Design 1

Application of principles in the art of floral design as to form, style and composition. Designing of floral arrangements, wreaths, sprays, baskets, bouquets, wedding flowers and corsages are included in the laboratory setting.

VOC AGR26 — Floral Design 2

Continued application of principles in the art of floral design. Contemporary design theory emphasizing creativity, self-expression and professional design situations.

VOC AGR27 — Floral Design 3

Advanced application of principles in the art of holiday designs, party and wedding designs, and sympathy designs. Florist management operations will emphasized.

VOC AGR29 — Ornamental Plants - Herbaceous

Identification, growths habits, culture and ornamental use of landscape annuals, biennials, perennials, ferns, indoor plants, groundcovers and vines adapted to climates of California. Plants emphasized will come from the California Association of Nurseries and Garden Centers (CANGC) and California Landscape Contractors Association (CLCA) certification test plant lists.

VOC AGR30 — Ornamental Plants - Trees and Woody Shrubs

Identification, growth habits, culture and ornamental use of landscape trees and shrubs adapted to climates of California. Plants emphasized will come from the California Association of Nurseries and Garden Centers (CANGC) and California Landscape Contractors association (CLCA) certification test plant lists.

VOC AGR32 — Landscaping and Nursery Management

Operation and management of wholesale and retail nurseries. Includes site location and layout of areas; greenhouse management; soil mixes and proper use of fertilizers, insecticides, fungicides, herbicides and growth regulators; irrigation; mechanization; financing; personnel management; retail displays, advertising and customer relationships; federal, state and local laws and regulations. Field trips are included.

VOC AGR39 — Turf Grass Production and Management

Introduction to cultivation, maintenance and management of turf grasses utilized for athletic fields, golf courses, parks, cemeteries, commercial and residential lawns. Identification, installation, cultural requirements and maintenance practices are emphasized.

VOC AGR40 — Sports Turf Management

Prepares students to work in the sports turf industry. Emphasizes turf cultural techniques used in sports turf management. Includes turf surfaces used on baseball, football, soccer, tennis, golf courses, driving ranges and other sports fields in both professional and amateur sports. Field trips are included.

VOC AGR50 — Soils Science and Management

Principles of proper soil management to optimize plant growth, including management of air, water, nutrients and organic matter. Physical and chemical properties of soil that govern soil reactions and interactions. Field trips are included.

VOC AGR51 — Tractor and Landscape Equipment Operations

Selection, operation, repair and maintenance of power equipment used in the landscape industry. Includes 2WD and 4WD tractors, skip loader, skid steerloader, backhoe, lawnmowers, edgers, weed eaters, blower/vacuum, rotatillers, chainsaws, spraying equipment and allterrain vehicles. Laboratory includes actual hands-on applications of this equipment.

VOC AGR52 — Hydraulics

Operation, maintenance and repair of hydraulic systems used on agriculture and industrial equipment. Emphasis: pumps, valves, cylinders, flow control, reservoirs, lines, motors and hydrostatic transmissions. Laboratory provides hands-on application of hydraulic systems.

VOC AGR53 — Small Engine Repair 1

Principles and repair of small engines used in landscape, industrial and agricultural applications. Includes repairs of lawnmowers, chainsaws, 2-cycleengine, 4-cycle engine, spraying equipment, all-terrain vehicles, and other related gas-powered equipment.

VOC AGR55 — Diesel Engine Repair

Repair and maintenance of diesel engines used to power industrial, landscape and agricultural equipment. Students gain actual hands-on experience maintaining, servicing and repairing diesel engines.

VOC AGR56 — Engine Diagnostics

Analysis and evaluation of tractor power failure. Students gain actual experience in the proper diagnostic procedures of power equipment. Service, maintenance and repair of tractor electrical systems: electrical wiring, voltage regulators, generators, alternators, switches, gauges, batteries and test equipment.

VOC AGR57 — Power Train Repair

Service, maintenance and repair of power trains. Students gain experience with clutches, transmissions, differentials, power take-off units, and final drive used to transmit power on tractors and other outdoor power equipment.

VOC AGR62 — Landscape Irrigation - Design and Installation

Design and application of turf and ornamental irrigation systems. Design techniques, sprinkler system components and hydraulic principles used in nursery management, interior design, residential and commercial landscaping. Special emphasis is given to water conservation incorporating controlled flow technologies.

VOC AGR63 — Landscape Irrigation Systems Management

A systematic approach to water conservation in the landscape. Repair techniques that will allow a current system to efficiently operate to its initial design. Trouble-shooting procedures including field testing of valves and controllers. Irrigation efficiency testing will be incorporated to demonstrate proper methods of water audits and system.

VOC AGR64 — Landscape Irrigation - Drip and Low Volume

Conservation of water in the landscape by utilization of drip and lowflow irrigation practices. Design, installation techniques, operation and maintenance of drip and low-flow irrigation systems, including determination of irrigation requirements, selection of emitters and lowflow devices, and uniformity of water distribution. Students will gain hands-on experience in design and installation techniques.

VOC AGR71 — Landscape Construction Fundamentals

Fundamentals of construction techniques and tools used in landscaping. Students will gain skills in construction projects that include surveying techniques, utilities (gas, water, electricity), woodworking and masonry.

VOC AGR72 — Landscape Hardscape Applications

Landscape construction pertaining to hardscape featured in the landscape. Estimation and installation of fences, walks, planters, patios, lighting, barbecues, gazebos, decks, ponds, spas, fountains and pools. Students will gain hands-on experience in the laboratory activities.

VOC AGR73 — Landscaping Laws, Contracting, and Estimating Landscape laws, contracting and estimating as they pertain to landscape construction. Information covered will be helpful for Landscape Contractor's (C-27 classification) licensing exam administered by the state of California. Students gain hands-on experience of contracting and running a business.

VOC AGR75 — Urban Arboriculture

Care and management of ornamental trees. Includes pruning techniques, fruit tree care, bracing, cabling, and pest control. Safe practices in the use of equipment including the use of ropes, chippers, boom trucks, chain saws, and identification and evaluation of common trees. Prepares students for the tree worker and arborist certification exams.

VOC AGP70 — Pet Shop Management

The pet industry, pet shop operations and the economic aspects of the retail/wholesale pet business. Includes organization and operation of pet shops, animal care practices, and sound business management practices.

VOC AGP71 — Canine Management

Selection, feeding, housing, breeding and management of dogs, including commercial aspects of the dog as a domestic pet. Laboratory work will include practical experience in the handling, training and grooming of dogs.

VOC AGP72 — Feline Management

Care and management of cats. Includes breed identification and characteristics, grooming, showing, nutrition, practical care, behavior, breeding and housing.

VOC AGP73 — Tropical and Coldwater Fish Management

Care and keeping of marine and freshwater aquarium fishes, plants and invertebrates. Includes guidance on setting up aquariums, choosing compatible species, feeding, health care, breeding and raising fish.

VOC AGP74 — Reptile Management

Care and keeping of reptiles and amphibians, including snakes, lizards, turtles, tortoises, newts, salamanders and frogs. Includes identification and characteristics of reptiles commonly kept as pets. Guidance regarding the housing, feeding, health maintenance, breeding and raising of reptiles will be offered.

VOC AGP76 — Aviculture - Cage and Aviary Birds

Presents cage and aviary birds marketed in the wholesale and retail pet trade, including identification, nutrition, breeding, disease prevention and control, aviary construction and providing the proper environment. Includes information on psittacines, soft bills, finches, game birds, poultry and ornamental waterfowl.

OCCUPATIONAL — ARCHITECTURAL TECHNOLOGY

VOC ARC11 — Architectural Drawing

Basic graphic and drawing techniques, including architectural graphics, building construction fundamentals, and methods of drawings considered prerequisite to architectural design.

VOC ARC16 — Basic CAD and Computer Application

Basic CAD (Computer Aided Design and Drafting) and computer application in architecture, engineering and related fields (including basic word processing, spreadsheet, CAD and presentation applications). Students who repeat this course will improve skills through further instruction and practice.

VOC ARC18 — Architectural Computer Aided Design Elements

Intermediate CAD (Computer Aided Design and Drafting) specifically for architectural design and production. Portfolio of 2-D drawings and 3-D CAD models will be produced.

VOC ARC26 — Advanced Architectural Computer Aided Design

Advanced architectural CAD drawings. Portfolio of working drawing and presentation applications of integrated 2-D and 3-D CAD models will be produced. Students who repeat this course will improve skills through further instruction and practice.

VOC ARC28 — Architectural CAD 3-D Illustration and Animation

Intermediate to advanced architectural CAD in 3-D illustration, rendering and animation. Virtual "walk-through" and "fly-through" of interior/exterior3-D models with photo-realistic materials and lighting will be produced. Students who repeat this course will improve skills through further instruction and practice.

OCCUPATIONAL — BUSINESS

VOC BA07 — Principles of Accounting - Financial

Introduction to financial accounting which provides the foundation for continued coursework in accounting. Includes accounting concepts and techniques essential to the administration of a business enterprise, analyzing and recording financial transactions, accounting valuation and allocation practices and the preparation, analysis and interpretation of financial statements. Gives the student the tools and methods needed for decision making.

VOC BA11 — Fundamentals of Accounting

Accounting vocabulary and theory, equations to solve word problems, percentages, simple and compound interest, payroll, business taxes, present value, investments, inventory, depreciation, financial statement analysis and ratios.

VOC BA53 — Ten-Key Calculations

Operation of electronic calculators by the touch method to solve business and accounting problems. Focuses on the application of calculator features to specific business concepts including banking records, payroll, invoice pricing and inventory.

VOC BA68 — Business Mathematics

Reviews addition, subtraction, multiplication, division, decimals, percentages, fractions, sign numbers, equations and problem solving.

VOC BA70 — Payroll and Tax Accounting

Examines all areas of on-the-job payroll accounting. Surveys the various tax procedures required by the employer and employee in filing the correct forms for Social Security, federal and state income taxes and their reconciliation. Laws related to Worker's Compensation, State Disability Benefit Laws and Fair Employment Practices are discussed.

VOC BA71 — Financial Planning

Personal financial planning for students who wish to understand their own finances or assist others in money management. Topics include income taxes, consumer credit, budgeting home ownership, banking functions, insurance, retirement planning investing and time value of money.

VOC BA72 — Bookkeeping - Accounting

Fundamental bookkeeping and accounting principles including the accounting cycle for service and merchandising companies, cash management, payroll and special journals. Computerized simulations and completion of a practice set.

VOC BA75 — Using Microcomputers in Financial Accounting

Application of basic accounting concepts utilizing ledger software program. Hands-on use of a microcomputer to process accounting transactions, prepare statements and reports, and complete accounting cycle tasks. Completion of a computerized accounting practice set will be required.

VOC BA76 — Using Microcomputers in Managerial Accounting

Analyze financial data and prepare managerial accounting reports using Excel software. Development of "what-if" formulas to be used as an aid in decision-making. Manufacturing and consolidation worksheets, financial statement analysis, and statement of cash flows.

VOC BM10 — Principles of Continuous Quality Improvement

History and evolution of thought in Continuous Quality Improvement, including the theories and methods of Deming, Juran and Crosby. The quality management process and tools for the continuous improvement of quality are presented. Relevant case studies are included.

VOC BM12 — Continuous Quality Improvement Team Building Advisory Prerequisite: VOC BM 10

Advisory Prerequisite: VOC BM 10 Provides comprehensive instruction in building and using Continuous

Quality Improvement project teams including selection of team members and evaluation of team performance. Students completing the course will be qualified to participate as members of Continuous Quality Improvement teams, create and evaluate problem solutions applying tools for improvement planning and team decision making, and build an effective improvement plan.

VOC BM20 — Principles of Business

Overview of business and its functions, background, development, organization and opportunities. Business terms, current trends, methods, contemporary and future problems, and current business practices are covered.

VOC BM25 — Principles of E-Commerce

A hands-on course focusing on learning the principles of E-commerce through the use of the internet. Students study the economic importance of E-commerce domestically and internationally. Includes uses of the internet, consumer buying, retail and business purchases, internet marketing, digital advertising, global E-commerce and business Web sites.

VOC BM51 — Principles of International Business

An overview of the rapidly changing international business environment, designed to provide a global perspective. Introduces global viewpoints across the full spectrum of business functions, including but not limited to: accounting, finance, human resources, management, operations, production, purchasing and strategic planning.

VOC BM52 — Principles of Exporting and Importing

Acquaints the student with the vocabulary, acronyms and the basic information needed for an understanding of and participating in the exporting and importing of goods and services.

VOC BM60 — Human Relations in Business

Behavior, personality, self-management, self-development, and elementary business psychology as an aid to furthering the student's business advancement and lifelong learning. Class discussions focus on the student's understanding of intrapersonal and interpersonal effectiveness with emphasis on communications, motivation, leadership and other related areas.

VOC BM61 — Business Organization and Management

Functions of management, techniques of decision making and problem solving, and methods used by the manager to achieve organizational goals. Various theories of management, lines of authority, functions of departments, and the importance of policies, procedures, and controls are discussed.

VOC BM62 — Human Resource Management

Direction of people including guidance, control, supervisory problems, training, job analysis, interviewing, testing, rating and other functions involving human resources. Designed to improve the overall understanding of the relationship between the individual and the business organization.

VOC BM66 — Small Business Management

Practical problems encountered in organizing and operating a small business enterprise: initiating the business, financial and administrative control, legal and government relationships and other related considerations.

VOC BM85 — Special Issues in Business

Provide business majors with a forum to gain knowledge, develop techniques, problem solve and implement an actual business plan. Special emphasis will be placed on the particular project of the actual business used as the class project.

VOC BO05 — Business English

Skills and techniques of English, as applied to business situations. Emphasis on effective paragraphs and memos.

VOC B025 — Business Communications

Written communications including letters and memos meeting a variety of situations in the business environment. Includes writing of good news, bad news, sales, claims and persuasive correspondence; letters and resumes appropriate to job seeking and application; and practicing oral skills as applied to job interviews and business reports.

VOC B026 — Oral Communications for Business

Designed to help business people communicate more effectively in spoken communication situations such as training sessions, presentations, and professional discussions.

VOC B096 — Spelling and Vocabulary for Success

Advisory Prerequisite: VOC B005 Learn to spell and define troublesome words. Improve basic spelling and vocabulary used by business and industry. Includes proper use of dictionary; word division; adding suffixes and prefixes; synonyms; computer-related vocabulary; and business vocabulary. Note: VOC B0 96A and VOC B0 96B are equivalent to VOC B0 96.

VOC B096A — Business Vocabulary

Develops a broad word command of new and specialized business vocabulary for use in various businesses. Improves vocabulary to enhance written and oral communication.

VOC BSR52 — Real Estate Practice

Office procedures and practices in listings, advertising, prospecting, financing, exchanges, property management, salesmanship, land utilization and public relations. A course in real estate practice must be completed within 18 months of licensure.

VOC BS35 — Professional Selling

Principles of selling and the role of a salesperson in the marketing process. Includes characteristics and skills necessary for a successful salesperson, techniques for prospecting and/or qualifying buyers, buyer behavior and critical steps in the selling process. Students develop and offer a sales presentation for a selected product, service or concept.

VOC BS36 — Principles of Marketing

Organization and function of the system of distributing goods and services from the point of production to the consumer. Preparation of a marketing plan using product, distribution, promotional and pricing strategies.

VOC BS50 — Retail Store Management and Merchandising

Principles and practices used in the management and merchandising of retail stores. Includes all aspects of the critical buying function, merchandising, promotional techniques, site selection, layout, staffing, market positioning and customer service.

VOC BS70 — International Marketing Concepts

Factors unique to foreign economics, cultural environments, political/legal problems, marketing intelligence procedures, international product policy, distribution and market channels, promotion and pricing decisions.

VOC BS85 — Special Issues in Marketing

Provides marketing majors with a forum to gain knowledge, develop techniques, problem-solve and implement an actual business marketing plan. Special emphasis will be placed on the particular project of the actual business used as the class project.

VOC CSB15 — Microcomputer Applications

Introduction of windows based operating system and applications. Simple business examples using up-to-date browser, word processing, spreadsheet, database management and presentation software; and integration of software applications. Hands-on instruction on windows based computers.

OCCUPATIONAL — COMPUTER OPERATIONS

VOC CPBC1 — Basic Computing Level 1

Introduction to the personal computer, including terminology and basic computer operations in a Windows environment. Instruction is handson. Note: Students may take this class only 2 times consecutively. Registration is first-come, first-served. Students must register in person, and may register for only one class per site.

VOC CPBC2 — Basic Computing Level 2

A hands-on course focusing on ways to create documents in applications such as Mircosoft Word; includes basic computer maintenance and problem-solving techniques. Note: Students may take this class only 2 times consecutively. Registration is first-come, firstserved. Students must register in person, and may register for only one class per site.

VOC CPBC3 — Basic Computing Level 3

Prerequisite: VOC CP-BC2 Basic Computing Level 2 Designed to increase word processing skills through creative projects which introduce computer graphics. Students will further their understanding of proper computer care and maintenance.

VOC CPCC — Creative Computing

Develops creative skills in utilizing graphic designs for projects such as business cards, letterhead, labels, flyers, posters, greeting cards and computer-generated fabric designs. Proper marketing skills will also be discussed.

VOC CPCL — Computer Laboratory

A lab study program designed to complement the lecture materials presented in computer program instructional courses.

VOC CPNET — Internet Research - An Introduction

Includes e-mail, research, terminology and functional capabilities of the Internet. Note: Registration is first-come, first-served. Students must register in person and may register for only one class per site.

VOC CP01 — Computer Keyboarding

Basic alpha/numeric keyboarding skills on a personal computer; develops a straight-copy rate of 25 to 40 gross words a minute with a predetermined error limit; includes keyboarding of letters, tables and manuscripts.

VOC CP01A — Computer Keyboarding

Develops basic alpha/numeric keyboarding with skills on a personal computer; develops a straight-copy rate of 25 to 30 gross words a minute with a predetermined error limit.

VOC CP01B — Computer Keyboarding

Develops a straight-copy rate of 25 to 40 gross words a minute with a predetermined error limit and includes keyboarding of letters, tables, and manuscripts.

VOC CP02 — Intermediate Computer Keyboarding

Develops computer keyboarding speed and accuracy with a proficiency standard upon completion of 35-55 gross words a minute with a predetermined error limit. Using word processing software, extensive instruction given for formatting of letters, memos, reports, tables and other related business documents.

VOC CP10 — Operating the Macintosh Computer

Basic skills and in-depth practice operating the Apple Macintosh computer. Includes introduction to the operating system, paint, draw, word-processing, database, spreadsheet, and multi-media applications.

VOC CP11 — Internet Research for Business

Practical hands-on instruction using the Internet for research in a business environment. Master Internet-specific research techniques, discover timesaving tips for locating and managing information, and use the entire Internet, newsgroups, FTP (File Transfer Protocol) and mailing lists.

VOC CP12 — Office Computer Applications

Overview of computer applications utilized in the office environment. Includes extensive hands-on instruction in word processing, spreadsheet, data management, and business graphics. Intended for the student who needs to upgrade or acquire office computer skills.

VOC CP13 — Using Web Page Software

Using industry leading Web page authoring software to plan, develop, and publish effective professional Web sites. Includes working with text and graphics; creating hyperlinks; creating tables and layers; collecting data with forms; adding multimedia objects; creating and applying cascading style sheets; creating interactions and behaviors; publishing a Web site.

VOC CP18 — Data Entry

Data entry using a microcomputer. Includes intensive skill building on the ten-key pad and development of keyboarding skills for entering formatted and non-formatted text, both alphabetic and numeric, in a variety of business applications.

VOC CP20 — Word for Office / Business Professionals

Extensive hands-on instruction using Microsoft Word and its language, editing and formatting tools to create, revise and format various business and report documents. Also create complex publication documents using advanced formatting techniques and tools.

VOC CP28 — Office Management Skills

Training and skill building in filing systems and procedures, proofreading, telephone techniques, faxing, emailing and electronic calendaring of events, appointments and meetings.

VOC CP29 — Computer Keyboard Skills Building

Using microcomputers to increase speed and accuracy through intensive drills. Students will have their keyboarding skill diagnosed and appropriate drill work will be prescribed. Students who repeat this course will improve skills through further instruction and practice.

VOC CP50 — Desktop Presentations Using PowerPoint

Use PowerPoint to plan, design, and produce effective presentations. Includes creating charts, diagrams, and storyboards; developing appropriate text content; adding sound, animation, and movies. Students who repeat this course will improve skills through further instruction and practice.

VOC CP60 — Desktop Publishing With InDesign or Pagemaker Using Pagemaker or InDesign desktop publishing software to integrate text and graphics for designing, editing and producing high-guality business publications. VOC CP62 — Desktop Publishing With QuarkXpress Using QuarkXpress desktop publishing software on a microcomputer to Systems integrate text and graphics for designing, editing and producing highguality business publications. VOC CP63 — Adobe Illustrator for Desktop Publishers Using Adobe Illustrator on a microcomputer to design and produce voltage systems license. graphic images that can be used independently or incorporated into a page layout or presentation program. VOC CNT60 — A+ Certification Preparation VOC CP64 — Desktop Publishing Seminar Produce publishing products emphasizing creative design and effective production. Practical experience through working with clients and software. working in teams. VOC CP65 — Modifying Images for Desktop Publishing Using Adobe PhotoShop on a microcomputer as applied from the office perspective. Students will learn to modify images that can be used independently or incorporated into a page layout or presentation certified will find this course invaluable. program. VOC CP68 — Transcription Techniques Develops the language competencies and formatting knowledge required to produce acceptable business documents; emphasizes

punctuation, number usage, proofreading, spelling and word division; and reinforces through a series of sentence applications, paragraphs and business documents.

VOC CP150 — Basic PowerPoint

Overview and basic instruction using one of the most popular presentation software packages. Recommended for all students who need to know how to create presentations. Not recommended for Office Technology majors.

OCCUPATIONAL — COMPUTER TECHNOLOGY

VOC CNT50 — PC Servicing

PC and peripheral servicing techniques, preventative maintenance, hardware configurations, software configurations, software diagnostics, and the use of test equipment.

VOC CNT52 — PC Operating Systems

Current operating systems required for A+ and Network+ Certification and general computer servicing. Topics include: identification of major components, installation, configuration, upgrading and troubleshooting.

VOC CNT54 — PC Troubleshooting

Advanced microcomputer servicing. Includes: isolating, identifying, and repairing specific problems in the computer environment at the hardware level. Prepares students for the A+ Certification Exam.

VOC CNT56 – Home Theater, Home Integration and Home Security

Home theater, home integration, and other home management systems. Emphasis on home theater, home management PLCs, security hardware and programming and the installation and servicing of such systems. Prepares the student for the California State Contractors C-7

Prepares the student and gualified computer technician for the A+ certification examination. All aspects of the Core and OS test modules will be stressed through both lecture review and test simulation

VOC CNT62 — Network+ Certification Preparation

Prepares the student and/or A+ certified technician for the Network+ Certification Examination. Individuals preparing for a job in the computer networking industry or who wish to become Network+

OCCUPATIONAL — CORRECTIONAL SCIENCE

VOC CRS10 — Introduction to Correctional Science

Overview of the field of corrections: county jail, probation, the California Youth Authority and the Department of Corrections as a member of the Criminal Justice System. Includes philosophy, past and the present practices and the criminal justice and correctional processes.

VOC CRS15 — Control and Supervision of the Offender

Examine methods of controlling and supervising inmates. Emphasizes California's methods in rapidly-expanding institutions.

VOC CRS20 — Correctional Law

Legal and due process rights for inmates. Inmate rights vs. needs of society, State, federal and appellate court decisions.

VOC CRS25 — Probation and Parole

Historical development of probation and parole with emphasis on current California programs. Defines the roles of courts, parole boards and the duties and responsibilities of the staff of probation and parole agencies.

VOC CRS30 — Ethnic Relations in Corrections

A historical survey of minority roles, problems and relationships in America. Stresses cultural and racial differences and interpersonal relationships of correctional staff and clients.

VOC CRS35 — Interviewing and Counseling in Corrections

Techniques of interviewing and counseling in the field of corrections with emphasis on practical application. Needs of the client and agency will be stressed.

VOC CRS40 — Crime and Delinguency

Criminal behavior and types of crime and effects on society and victims. Stresses property crime, property offender, motivation and methods of control used by society.

VOC CRS45 — The Violent Offender

Violent crimes of felony assault, robbery, rape, the various types of homicide, and the characteristics of both the offender and the victim.

OCCUPATIONAL — ELECTRONICS

VOC EL10 — Introduction to Mechatronics

An introduction to the field of mechatronics, a combination of conventional electronic technology with mechanical and computer technology. Special emphasis is on robotics. Hands-on activities include the building of a robot.

VOC EL11 — Technical Applications in Microcomputers

Use of the personal computer (PC) in electronics for technically related applications. Includes word processing, spreadsheet, database, computer presentation methods, e-mail and job searches. Students who repeat this course will improve skills through further instruction and practice.

VOC EL12 — Computer Simulation and Troubleshooting

Use of the personal computer for simulation and troubleshooting of both analog and digital electronic circuits. Circuit analysis, value substitution, and fault diagnostics will be done with the emphasis on "Electronics Workbench/Multisim" software. Students who repeat this course will improve skills through further instruction and practice.

VOC EL50A — Electronics Theory

Corequisite: VOC EL50AL

DC circuit theory covering resistive circuits, basic components, Ohm's Law, Kirchoff's Law, and network theorems. (Students seeking a survey course in electronics could take ELEC 90, Survey of Electronics, rather than ELEC 50A or 50B.)

VOC EL50B — Electronics Theory

Corequisite: VOC EL50BL

AC circuit theory covering inductors, capacitors, impedance, filters, decibels, and resonance. Analysis involves the use of complex numbers. Stresses passive components.

VOC EL51 — Electronic Devices Theory

Solid-state devices and circuits, including BJT and FET transistors, rectifier diodes, op-amps, voltage regulators, oscillators, and timers. Emphasizes configurations, classes, load lines, characteristics curves, gain, troubleshooting, and frequency response.

VOC EL53 — Communications Circuits Theory

Analog and digital communication circuits theory. Emphasizes analog and digital modulation principles in AM, FM, SSB, PLL, FDM, TDM, modems, fiber optics, and telecommunications circuits.

VOC EL54A — Industrial Circuits Theory

Industrial electronic components and basic control circuits. Includes time delay controls, solid-state controls, relays, opto devices, DC motor control, transducers, SCR, and UJT devices.

VOC EL54B — Industrial Electronic Systems

Expands on circuit theory and demonstrates systems application of industrial electronics including robotics, industrial production, automation, programmable and motor controllers. Emphasis is on programmable logic controllers.

VOC EL55 — Microwave Communications - Lecture

Microwave components, circuit theory, and their applications with emphasis on satellite technology. Stresses Gunn diode oscillators, transmission lines, waveguides, Smith Charts, components, amplification, frequency analysis, and measurement techniques.

VOC EL56 — Digital Electronics - Lecture

Combinational and sequential logic circuits emphasizing number systems, binary math, basic gates, Boolean algebra, Karnaugh maps, flip-flops, counters, and registers. Stresses design and troubleshooting techniques.

VOC EL61 — Electronic Assembly and Fabrication

Assembly and fabrication techniques in basic soldering, de-soldering and surface mount technology. Construction of coaxial and Category 5 cabling and connectors. Includes an overview of types of printed circuit board design. Students who repeat this course will improve skills through instruction and practice.

VOC EL62 — Advanced Surface Mount Assembly and Rework

Advanced course in assembly and repair (soldering) on surface mount assemblies. Prepares for the IPC surface mount assembly and rework certifications.

VOC EL74 — Microprocessor Systems

Emphasizes the software/hardware architecture for the typical microprocessor environment. The software instruction set and the hardware interface circuit design are covered for the microprocessor. Fundamentals and terms are covered for the personal computer (PC).

VOC EL76 — Radio/Telephone Communications

Prepares qualified electronic technicians for the F.C.C. and/or N.A.R.T.E. commercial licenses for technicians and engineers in the communications field. Students who repeat this course will improve skills through further instruction and practice.

VOC EL81 — Laboratory Studies in Electronics Technology

Extended laboratory experience supplementary to those available in the regular program. Allows the student to pursue more advanced and complex laboratory projects and experiments.

VOC EM65A — **Mathematics of Electronics- DC** Mathematics of DC circuits analyzing passive circuits including Ohm's Law, Kirchoff's Law, voltage dividers, current dividers, and network theorems.

VOC EM65B — Mathematics of Electronics - AC

Mathematics of AC circuits analyzing passive circuits including resistance, reactance, impedance, resonance, and complex numbers (polar and rectangle).

VOC TCH60 — Customer Relations for the Technician

Customer relations (soft skills) for the technician, including benefits of knowing and using effective customer contact tools, proper customer interactions, ethics and maintaining customer satisfaction.

OCCUPATIONAL — ELECTRONICS AND COMPUTER TECHNOLOGY

VOC EST50 — **Electrical Fundamentals for Cable Installations** Electrical fundamentals for cable and wire installations and other low voltage systems. Includes DC/AC, solid-state devices, digital and microprocessor devices and their application to cable installations. Prepares students for the California State Contractors C-7 low voltage systems license.

VOC EST52 Fabrication Techniques for Cable Installation

Fabrication techniques used in the installation of home theater, computer networks, home automation, and other low voltage system applications. Emphasis on hand and power tools, construction methods and materials as they apply to cable and wire installations.

VOC EST54 — Cabling and Wiring Standards

Cable and wire standards of video, voice and data wiring for home theater, computer networks, home automation, telecommunications, and other low voltage system installations. Emphasis on copper wire, coax, fiber optic, and structured cables. Prepares students for the California State Contractors C-7 low voltage systems license.

VOC EST56 — Home Theater, Home Integration & Home Security Systems

Home theater, home integration, and other home management systems. Emphasis on home theater, home management PLCs, security hardware and programming and the installation and servicing of such systems. Prepares students for the California State Contractors C-7 low voltage systems license.

VOC EST62 — Electronic Troubleshooting - 1

Troubleshooting basic electronic circuits and systems to component level. Circuits include: power supplies, amplifiers, audio circuits, home theater audio (Dolby 5.1) and video circuits (analog TV).

VOC EST64 — Electronic Troubleshooting - 2 Troubleshooting advanced electronic video circuits and systems to component level. Includes digital TV and HDTV (plasma, LCD, DLP).

VOC EST70 — **C-7 Low Voltage Systems License Preparation** Prepares students for the California State Contractors C-7 Low VoltageSystems license examination.

OCCUPATIONAL — ENGINEERING DESIGN

VOC EDT11 — Technical Engineering - Drawing 1

Basic skills for a solid foundation in the Engineering Drawing or Computer-Aided Design fields. Involves application, basic sketch, theories and design processes used in engineering and industrial drawings. Completion of a portfolio is a requirement of this course.

VOC EDT12 — Technical Engineering Drawing 2

Advanced applications, automated techniques, dimensioning, tolerancing, fasteners, piping, circuit board design, theory used in engineering and industrial drawings. Students will complete a set of working drawings in either manual or CAD for inclusion in a portfolio.

VOC EDT14 — Mechanical Design - Geometric Dimensioning and Tolerancing

Use symbols for tolerance of form and tolerance of position and drawing requirements with respect to actual function and relationship of part features. Studies of related terminology, power transmission, bearing and mechanical devices, related exercises including design layout, details and assembly drawings. Completion of a portfolio is a requirement of this course.

VOC EDT16 — Basic CAD and Computer Applications

Basic CAD (Computer Aided Design and Drafting) and computer application in architecture, engineering and related fields (including basic word processing, spreadsheet, CAD and presentation applications). Students who repeat this course will improve skills through further instruction and practice.

VOC EDT18 — Engineering CAD Applications

Intermediate CAD for engineering, explores the 2-D and 3-D environments, 3-D parametric solid modeling, file manipulation related to Windows platforms.

VOC EDT24 — Engineering CAD 3-D Solids and Surfaces

Advanced engineering CAD for developing detailed working drawings in 3-D environments, incorporating 3-D parametric solid modeling, bill of materials, and surface development. Students who repeat this course will improve proficiency and skill levels.

VOC EDT26 — Civil Engineering Technology and CAD

Theory of civil engineering projects with hands-on instruction in civil drawings and Computer Aided Drafting and Design (CAD) applications. Layout, topography maps, grading plans, sections, street improvements, and interpretation of surveyor's data are covered. Set of CAD drawings produced for a final portfolio.

OCCUPATIONAL — FASHION AND FASHION DESIGN

VOC FSH08 — Introduction to Fashion

Examines scope of the fashion industry from concept to consumer: industry background and technology. Includes design, manufacturing, distribution, sales and promotion with emphasis on career opportunities and gualifications.

VOC FSH09 — History of Costume and Fashion

A survey of Western costume and fashion from antiquity to contemporary times. Emphasis is placed on style development as it relates to social, economic and political forces, and the relationship of historic styles to current fashion.

VOC FSH10 — Clothing Construction 1

Development of a basic understanding of industry standard apparel construction techniques using a variety of machines and equipment. Included are marker preparation, commercial patterns, basic block fusing, and garment construction of slim skirt/pants, dress/shirt, and knit "T" shirt.

VOC FSH12 — Clothing Construction 2

Industry-quick alternatives to traditional construction and tailoring techniques, using overlock and single needle machines. Hands-on experience using woven fabrics for tailored clothing and novelty knits.

VOC FSH15 — Fashion Strategies

An investigative overview of sociological, psychological, cultural and fashion industry influences on clothing selection. The elements and principles of design and their impact on dress will be explored.

VOC FSH17 — Textiles

Examines the manufacturing of textiles/fabrics and factors that determine the suitability for end use. Topics covered include natural and synthetic fibers, yarns, fabric construction, dyes, finishes, legislation and care. Emphasis is placed on selection criteria for textile product design and recent developments in the textile field.

VOC FSH20 — Illustration for Fashion and Costume Design

Drawing techniques for fashion and theatrical costume design. Application of the basic techniques used in drawing a well-proportioned male and female figure and in rendering garment flats using texture, fabric and design detail. Students will explore a variety of mediums.

VOC FSH21 — Patternmaking 1

Theory and application of basic flat patternmaking techniques to create garment designs using industry standards. By means of dart and seam manipulation, slopers will be created, constructed and fitted.

VOC FSH22 — Fashion Design By Draping

Three-dimensional dress design through draping fabrics directly to a dress form to create original designs or to interpret fashion illustrations.

VOC FSH23 — Patternmaking 2

Intermediate pattern drafting and flat patternmaking, with the introduction to the sizing of patterns/grading. Development of patternmaking skills to include two-way stretch knits, swimwear, and complex construction. Students apply commercial manufacturing standards in producing size ranges for misses' and women's wear, to include skirts, pants, bodices, sleeves and collars.

VOC FSH24 — Fashion Patternmaking by Computer

Applications of Computer Aided Design (CAD) patternmaking and grading for the fashion industry. Exploration of drawing techniques, pattern development, flat pattern manipulation and the sizing/grading of patterns.

VOC FSH25 — Fashion Computer-Assisted Drawing

Drawing production flats, colorization and scanning images using computer as a drafting tool. Exploration of popular computer techniques and methods suitable for use in apparel industry. Concentration on Adobe Illustrator and Adobe Photoshop.

VOC FSH30 — Fashion Design and Product Development I

Overview of the global environment for product development for fashion. Applies the concepts and methods by which retailers create special store-branded merchandise for targeted customer segments. Students will develop financial and design goals, create product concept and line-boards, and evaluate the aesthetic and commercial results.

VOC FSH31 — Fashion Design and Product Development 2

Intermediate fashion students will create and maintain a personal design sketchbook and work with the basic categories of swim wear, active wear, children's and junior clothing. Industrial techniques of drawing production flats and design room sketches are taught in addition to the full fashion figure. Projects will include creation of lines including production flats, textile selection, cost sheets, full-color illustrations and full scale patterns.

VOC FSH32 — Fashion Design and Product Development 3

Advanced fashion design and product development emphasizing, in portfolio format, a minimum of three lines with production flats, scale patterns, pattern charts, cost sheets and sample garments. A design sketchbook will be maintained. Includes resume preparation and job search appropriate for the fashion design industry.

VOC FSH62 — Retail Store Management and Merchandising

Principles and practices used in the management and merchandising of retail stores. Includes all aspects of the critical buying function, merchandising, promotional techniques, site selection, layout, staffing, market positioning and customer service.

OCCUPATIONAL — GEOGRAPHY

VOC GOG10 — Introduction to Geographic Information Systems An introduction to the fundamentals of a geographic information system(GIS), including history of automated mapping; introduction to cartographic principles; overview of software, such as ArcView; hardware; application of GIS technology in environmental sciences, government, business, terminology, data, and spatial analysis.

OCCUPATIONAL — HEALTH

VOC ANA50 — Basic Anatomy and Physiology

Introduction to human anatomy and physiology by systems, with brief descriptions of biochemistry, cell biology and molecular biology. Upon completion, students will understand normal functions and be able to recognize pathologies.

VOC CPR01 — BLS Heartsaver Course - Adult

This three (3) hour course is designed to teach the life-saving skills of Cardiopulmonary Resuscitation, the first aid techniques for choking emergencies, and how to respond to general life-threatening emergency situations. Students will learn about the risk factors associated with heart attacks and strokes. Successful completion of the course will provide the student with an American Heart Association eartsaver CPR Level A Completion Card, renewable in two years.

VOC HTH01 — Certified Nursing Assistant

Prepares participant to work in a skilled nursing facility and pass California Long-Term Care CNA exam.

Prerequisites:

- Current American Heart Association BLS for Health Care Providers card (must be valid for course duration)
- Completed Technology and Health Division Student Medical History and Physical exam form within the last 3 months
- Current Live scan fingerprint documentation.
- Valid identification (CA driver's license or CA.ID card) and Social Security card

Co-requisite:

Enrollment in VOC HLTH 05

VOC HTH04 — Acute Care Nursing Assistant

This course will enhance the existing skills of the CNA and provide the knowledge and job skills to work in various departments of acute care hospitals including med-surgical, obstetrics and pediatrics. *Prereauisites*:

- Documentation of completion of CNA Course and successful pass on CNA certification exam
- Current American Heart Association BLS for Health Care Providers card (must be valid for course duration)
- Completed Technology and Health Division Student Medical History and Physical exam form within the last 3 months
- Current Live scan fingerprint documentation.
- Valid identification (CA driver's license or CA ID card) and Social Security card

VOC HTH05 — Health Careers Resource Center

Provides health occupational students with instructional media and equipment to practice and improve nursing and other health occupation competencies.

VOC HTH12 — Medical Terminology

Presents a study of the use and meaning of basic medical terminology. A programmed learning, word building system will be used to learn word parts that are used to construct or analyze new terms. Emphasis is placed on spelling, definition, usage and pronunciation. Abbreviations will be introduced as related terms are presented. Special emphasis will be placed on actual case diagnoses, treatments and medical interventions.

VOC HTH13 — Interpreting in Health Care 1

Skills necessary for effective language interpretation in health care settings; emphasis on the roles and responsibilities of a health care interpreter, basic knowledge of common medical conditions, treatments and procedures, insight in language and cultural nuances for specific interpretation.

VOC HTH14 — Interpreting in Health Care 2

Further enhancement of interpreting skills learned in VOC HLTH13 covering specialized health care service areas such as genetics, mental health, and death and dying. Emphasis on the development of cultural competency in the community and workplace and careers in interpretation.

VOC HTH15 — Externship in Health Care Interpreting Corequisite: VOC HTH20

Healthcare Interpreting Seminar Facilitating linguistic and cultural communication between client and health care providers.

VOC HTH16 — Geriatric Resource Specialist

Prepares the participant to utilize available resources for older adults on a national and local basis. Identification of older adults' needs; development of action plans to access appropriate services.

VOC HTH18 — In-Home Care of Alzheimer's and Dementia Clients

Information and educational activities with techniques to enhance one's ability to work with Alzheimer's/Dementia consumers, with an emphasis on effective communication skills and appropriate activities when working with consumers and delivering direct care.

VOC HTH20 — Health Care Interpreter Seminar

Principles, issues, concepts, and skills related to the role of the Health Care Interpreter in facilitating linguistic and cultural communications through the externship field experience.

VOC RDTEC — **Interavenous Therapy for Radiologic Technology** This course prepares the Radiologic Technologist student to perform venipuncture in an upper extremity to administer contrast materials under the general supervision of a licensed physician and surgeon. Principles and techniques of venipuncture will be covered including: anatomy and physiology of sites, instruments, I.V. solutions, equipment, puncture techniques, hazards, complications, emergency care, post puncture care. Procedure practice and safe competency evaluation will be performed on training aids under supervision.

OCCUPATIONAL — HOTEL AND RESTAURANT MANAGEMENT

VOC HRM51 — Introduction to Hospitality

Brief review of the historical development of the hospitality industry; social and economic influences on the current leisure industry structures. Career opportunities at various levels in hotels, restaurants, food service institutions and private clubs/resorts. Education and experience requirements, personal qualifications, job responsibilities, job procurement and future opportunities.

VOC HRM52 — Food Safety/Sanitation

Basic principles of sanitation and safety in the food service industry. Emphasis on the role of management in design, implementation and training to establish an effective Hazard Analysis Critical Control point (HACCP) system. Students will have the opportunity to earn the National Restaurant Association's ServSafe Certificate upon completion of this course.

VOC HRM53 — Dining Room Service Management

Skills and knowledge needed for all aspects of dining room service. Exploration of the five different service styles and their relationship to various environments. Table setting styles, buffet set-ups, wine and beverage service, and service as a sales tool are covered. Safety of both customer and staff are discussed.

VOC HRM54 — Commercial Food Preparation

Basic principles of preparing foods for commercial operations; the use and identification of commercial tools and equipment; extending recipes; choosing the proper food grade; evaluation of food products and equipment usage.

VOC HRM56 — Management of Hospitality Personnel and Operations

Management skills course for students pursuing a career in supervision within the restaurant/ hospitality industry. Application of basic management concepts and techniques necessary to achieve objectives in the management of operations and human resources in restaurant and hospitality businesses including analysis of hospitality workplace; the manager's responsibilities in training, coaching and performance appraisal of employees; decision making, leadership and planning.

VOC HRM57 — Restaurant Cost Control

Methods for controlling resources within the hospitality operation to maximize profits without compromising products. Discusses controls in front of the house, back of the house, purchasing and receiving.

VOC HRM58 — Fast Food Service Management

Basic principles of managing a fast food operation. Comparison with conventional restaurants in pricing, labor needs and facilities. Developing and marketing a positive company image. Practical and legal aspects of franchising versus single ownership. Sanitation and cost controls.

VOC HRM60 — Purchasing for the Restaurant Industry

Basic principles of purchasing for the food service industry. Ordering, receiving, storage, characteristics of products and grade selection for different situations are emphasized. Choosing the best supplier, negotiating the best terms and writing product specifications are covered.

VOC HRM61 — Menu Planning

Menu development for all facets of the food service industry including retail and contract operations; emphasis on the economics of the menu with regard to limitations of the facility and staff, pricing and menu design relative to the economy and culture of the target area. Specialty menus such as ethnic, fast food, catering and various contract situations are included.

VOC HRM62 — Catering

Comprehensive exploration of the catering business with in-depth study of organizing and creating both on-premise and off-premise events. Marketing and working with clients to combine menu with price. Contracting outside vendors, problem solving and avoiding common problems before they occur.

VOC HRM64 — Hospitality Financial Accounting

Introduction to financial accounting specifically for the hospitality business. Emphasis is on tailoring the Uniform System of Accounting to hotels, restaurants, clubs and other food service operations.

VOC HRM66 — Hospitality Law

Basic principles of contracts, liability and labor as they apply specifically to the hospitality industry. Students will discuss previous cases and decide the fates of fictional litigations as a preventive approach to problems that can occur.

VOC HRM70 — Introduction to Lodging

Introduction to the basics of the lodging industry. Acquaints students with front office operations, accounting, guest service, housekeeping and food service. Includes human resource management and property management. Enrollment in Work Experience in Restaurant/Food Service (RSTR 91, 92, 93 or 94) is needed for articulation to California Polytechnic State University.

OCCUPATIONAL — INTERIOR DESIGN

VOC ID100 — Fundamentals of Interior Design

Application of design principles and elements in planning of total interior environments that meet individual, functional, legal and environmental needs. Selection of all materials and products used in interior environments will be emphasized for the functional aesthetic quality. (Recommend concurrent enrollment in ID 105.)

OCCUPATIONAL — MANUFACTURING TECHNOLOGY

VOC MF11 — Mfg Processes 1

Manual and computerized manufacturing, manual lathes and mills, tool nomenclature and Computerized Numerical Control (CNC) operations. Operation of CNC machines. Students who repeat this course will improve skills through further instruction and practice.

VOC MF12 — Mfg Processes 2

The study of manufacturing equipment and manufacturing processes. Theory and practice in milling operations, tooling setup, metallurgy, heat treatment, precision grinding, and basic tool design.

VOC MF15 — AutoCAD 2D

Development of two dimensional AutoCAD mechanical screen drawings, as related to Computer Integrated Manufacturing (CIM), and Computer Aided Machines (CAM). Completed drawings will be translated into DXF and/or IGES files and then transferred to various CAD/CAM systems.

VOC MF17 — 3-D CAD for Mechanical Modeling

Advisory Prerequisite: VOC CIM 15 or equivalent industrial experience. Development of three dimensional mechanical models using AutoCAD. Includes interaction with Computer Aided Machines (CAM) and Computer Integrated Manufacturing(CIM). Analysis and manipulation of mechanical solid models and industrial primitives as related to their interactions with CAM and CIM systems.

VOC MF19 — Parametric Solid Modeling for Manufacturing

Development of feature-based solid modeling on a computer using current industry software. Transfer of solid model to a CAM system for CNC code production. Includes production of a manufactured part using CNC mill.

VOC MF25 — Advanced Parametric Solid Modeling for Desktop

Advanced instruction in concepts, practice, and development of featurebased solid modeling using Autodesk Mechanical Desktop. Advanced features of solid modeling; global variables, 3-D helical paths generation, surface cut, table-driven parts, and advanced scene and assembly techniques. Students who repeat this course will improve skills by further instruction and practice.

VOC MF27 — AutoDesk Inventor

Advanced concepts, practice, and development of feature-based solid modeling using AutoDesk Inventor. Solid modeling parts creation using sketched, placed, and work features. Assembly techniques, working drawings, and the transfer of a solid model to a CAM system.

VOC MF38 — MastercCAM 1

Use MasterCAM software to create wire-frame part geometry, add tool paths and create CNC code for CNC mills and CNC lathes. Students who repeat this course will improve skills through further instruction and practice.

VOC MF38B — Advanced MasterCAM

Use MasterCAM software to create wire-frame 3D/multi-axis part geometry, add tool paths, and create CNC code for CNC mills and CNC lathes. Students who repeat this course will improve skills through further instruction and practice.

VOC MF38C — MasterCAM Solids

Using MasterCAM software to design wire drawings, translate to solids drawings, and generate code from a solids creation to meet industrial standards. Students who repeat this course will improve skills through further instruction and practice.

VOC MF39 — SurfCAM 1

SurfCAM software used to create part geometry from project drawings for two-axis milling and turning parts. Tool paths will be added and files completed and post-processed. Files will be downloaded to CNC machines. Students will be required to set up all cutting tools and machine the part. Students who repeat this course will improve their skills through further instruction and practice.

VOC MF39B — SurfCAM 2

Use SurfCAM software to create part geometry for three-axis milling and lathe parts from project drawings and CAD files. Tool paths will be added and the completed file will be post-processed and downloaded to CNC machine. Students will set up the required cutting tools and machine the part. Students who repeat this course will improve skills through further instruction and practice.

VOC MF58 — Blueprint Reading for Manufacturing

Blueprint reading as a means of interpreting and visualizing drawings used in manufacturing. Includes the basic print form, title block, notes, materials, machining specifications, application of principles to CNC, welding, and sheet metal. Students who repeat this course will improve skills through further instruction and practice.

VOC MF70 — Technical Mathematics - Manufacturing Applications

Applications of mathematical principles in manufacturing. Includes arithmetic calculations, measurement, use of formulas, geometry, and trigonometry. Students who repeat this course will improve skills through further instruction and practice.

VOC MF85 — Manual CNC(Computerized Numerical Control) Operations

Theory and practice in manually developing CNC programs. Methods of transmitting data to CNC machines and physical set-up and operations of CNC equipment. Students who repeat this course will improve skills through further instruction and practice.

OCCUPATIONAL — NUTRITION

VOC NF81 — Cooking for Your Heart and Health

Skills in healthful food preparation emphasizing foods low in fat, cholesterol and sodium, and high in fiber and nutrients.

VOC NF82 — Vegetarian Cuisine

Investigates nutritional issues related to vegetarian eating practices. Includes laboratory experience in preparation of vegetarian foods and meals.

OCCUPATIONAL — PHOTOGRAPHY AND PHOTOGRAPHICS

VOC CPDI — Digital Photography for the Beginner

Operation of digital cameras, image management and composition, development of research skills using the Internet, and imaging graphics software. A hands-on course which includes scheduled field trips.

VOC GRP01 — Computer Graphics Lab

Provides computer laboratory experience to supplement the regular program, and provides opportunities for students to pursue more advanced projects. Students who repeat this course will improve skills through further instruction and practice.

VOC GRP10 — Photo Editing with Photoshop

Basic techniques to adjust and modify photos using Photoshop software tools. Includes digital color theory and photo quality standards; practice photoscan reproduction, resolution and scaling, masking, layer editing and effects, filters, color correction and file formats; output for editing, restoring, and retouching.

VOC GRP12 — Advanced Photoshop

Advanced training in Photoshop editing, color, exposure, sharpness and contrast enhancement, layer and object masking, vector tools, image composting and the uses of blended modes; design of realistic and imaginary photo illustrations using 8- and 16-bit high resolution images.

VOC GRP14 — Digital Color Management

Advanced techniques of digital photo color management systems and workflow. System color architectures, monitors, printers, proofers and other digital devices; spectrophotometer techniques; scripting Photoshop actions, using "digital raw" meta data to organize photo storage; advanced special editing techniques for 16-bit raw color and gravscale images.

VOC GRP16 — Digital Image Design

Basic digital image drawing techniques using Adobe Illustrator or Macromedia Freehand. Includes software tools, applying color, using layers, typography, measurement, and paper systems. Practice importing photo scans, creating layouts, layer animation, choosing fonts, special effects, export file formats, and output in a digital workflow.

VOC GRP18 — Advanced Image Design - 3D Modeling Techniques

Advanced digital image drawing emphasizing creation of photorealistic 3D models and environments. Principles of perspective, coordinate space, photographic lighting, object animation, photo and video texture mapping, and common techniques for rendering still or animated QuickTime image movies for digital compositing and post-production.

VOC GRP20 — Applying Photos and Images in Multimedia

Principles of digital storytelling, combining still photos, graphics images, type, video, and audio content output to digital CD or DVD media, video, or Web pages. Commonly used tools and techniques of Apple's iPhoto, iMovie, iDVD, iTunes, GarageBand, and QuickTime Pro multimedia software, Mac OS X features, and other multimedia software and hardware.

VOC GRP28 — Digital Portfolio

Preparation of a personal computer graphics portfolio containing key samples of work for presentation or career evaluation. The portfolio displays the learner's skills mastery, knowledge, and capacities for communicating, synthesis and problem solving.

VOC GRP48 — Introduction to Digital Design Systems

Introduction to digital design systems as they relate to computer graphics. CPU type and speed, graphic accelerators, storage media, digital color space, input/output devices, and scanning devices will be emphasized. Software unique to digital design and file management techniques will also be presented.

VOC PH001 — Laboratory Studies in Black & White Photography

Extended black and white laboratory experiences to supplement those available in the regular program. Provides students the opportunity to pursue more advanced projects and experiments.

VOC PH002 — Laboratory Studies: Color Photography

Extended color laboratory experiences to supplement those available in the regular program. Provides students the opportunity to pursue more advanced projects and experiments. Students who repeat this course will improve skills through further instruction and practice.

VOC PH004 — Digital Cameras and Composition

Use of digital cameras, lenses, filters, and exposure to compose quality photographs. Shooting assignments are given for analysis in class. Camera will be required after the second week.

VOC PH010 — Basic Digital & Film Photography

The basic mechanical, optical and chemical principles of photography, including digital image systems. Laboratory experience involves problems related to camera and image output techniques.

VOC PH011 — Advanced Professional Photography

Exploration of current professional techniques. Includes studio and field assignments related to problems encountered in advanced photography. Topics include but are not limited to: medium and large format cameras, studio product and portraiture, strobe and tungsten lighting, and computer basics for professional photographers.

VOC PH012 — Photographic Alternatives

Explores the use of continuous tone and alternative black and white techniques and processes. Emphasis will be on solving photographic problems through the use of current techniques such as montage printing, Polaroid and xerographic applications, hand coloring, and emulsion coating (cyanotype, Luminous/LiquidLight) as well as other special techniques.

VOC PH015 — History of Photography

Survey of the history of photography from circa 1839 to the present. An introduction to concepts of photographic representation and their impact on society.

VOC PH016 — Fashion Photography

Illustrative, editorial and advertising fashion photography. Studio and location production in both black and white and color are emphasized. Aspects of business operation and working with clients are explored.

VOC PH017 — Photocommunication

Explores the application of the photosensitive materials, photochemicals and optics. The emphasis will be on the aesthetic and expressive uses to which these materials lend themselves. The student is expected to supply his/her own adjustable camera.

VOC PH018 — Portraiture and Wedding Photography

Techniques and photographic procedures for taking informal, formal, environmental and group portraits. In-depth study and practice in professional wedding photography.

VOC PH020 — Color Photography

An introduction to current methods of producing color media, color negatives, positive transparencies, and outputting color prints.

VOC PH021 — Exploring Color Photography

Explores the application of color processes as they relate to commercial and artistic styles. Emphasis is on innovative use of color and contemporary techniques. Includes media manipulation and unique processing, coloring negatives, 8x10 Polaroid, digital imagery, specialized lighting, set building and quality control.

VOC PH028 — Photography Portfolio Development

Development of photography portfolio either for job application or gallery exhibition purposes.

VOC PH030 — Commercial & Illustrative Photography

Application of photographic principles to commercial and illustrative photography. Practical experience in studio product photography, illustration, fashion and architectural photography. Areas of promotion and pricing will be covered. Both black and white and color media will be used.

OCCUPATIONAL — SERVICE LEARNING

VOC SL1 — **Service Learning/Seminar for Health Occupations** Prepares students with related experiences in health occupations. Examines and profiles community health care needs. Explores and directly allows students to interface with various patient populations. Weekend and overnight labs to various areas within California maybe offered. Out-of-class projects required.

VOC SL3 — **Service Learning-Seminar in Community Involvement** Examines and profiles community needs through service learning. Explores and allows students to directly interface with community populations. Permits students the opportunity to explore various career options through community service. Enriches personal and career development through understanding of civic and social issues.

VOC SL4 — Service Learning and Community Involvement

Examines and addresses community needs through service learning. Students directly interface with community populations to identify needs and implement activities. permits exploration of service-oriented career options. Enriches personal and career development through understanding of civic and social issues.

OCCUPATIONAL — SPECIAL NEEDS POPULATION

VOC CISCO — Computer Operations

Training in basic computer skills such as starting a computer, setting up user preferences, mounting disc drives and practicing basic software application programs including word processing, simple spreadsheets and typing programs.

VOC MFAR — Assembly Repair Skills

Training in assembly operations, machine and maintenance repair; service occupations such as janitorial services, grounds keeping, etc. Develop and practice assembly skills through simulated and real work situations.

OCCUPATIONAL — STAINED GLASS PRODUCTION

VOC SGL1 — Beginning Stained Glass

Basic steps of stained glass construction, both lead and copper-foil techniques. A supply list will be handed out at the first class meeting. Students are responsible for their own materials.

VOC SGL2 — Advanced Stained Glass

Advanced stained glass techniques will include the construction of windows, lampshades and/or specialized gift items. Approach to marketing and selling of items will be included. A supply list will be handed out at the first class meeting. Students are responsible for their own materials.

OCCUPATIONAL — THEATER AND THEATER ARTS

VOC THR14 — Stagecraft

Theory and practice of stage design and lighting. Practical work in scene design and construction and lighting layouts, with the opportunity to perform these tasks in actual theatre situations. By virtue of the wide range of productions staged by the department, students who repeat this course will increase their skills and proficiency.

VOC THR15 — Play Rehearsal and Performance

Participation under faculty supervision in the planning, preparation and presentation of college-sponsored dramatic presentations. Emphasis on acting with some technical theatre assignments. Students who repeat this course will improve skills through further instruction and practice.

VOC THR16 — Theatrical Make-Up

An introduction to the theory and practice of make-up for the stage. The student will gain practice in the design and application of straight, stylized character, and other make-up techniques.

VOC THR18 — Technical Theater Practicum

Participation in the technical preparation and operation of productions presented to the community. The student will be involved in one or more of the following areas: stage scenery construction, stage lighting set up, property construction, stage sound set up, costume construction and make-up. Crew assignments will be given to the student upon enrollment. The availability of assignments is contingent upon the requirements of the production. Students who repeat this course will improve skills through further instruction and practice.

VOC THR19 — Theatrical Costuming

Theatrical costuming design and construction. Includes the study of costume history, principles of costume design, fibers and textiles, basic costume construction and design rendering techniques. Costume crew assignments for major productions will provide practical instruction in actual performance demands on costumes and their proper maintenance. Class is suitable for people interested in costuming for theater, dance, film, television and reenactments.

VOC THR60 — Children's Theatre

Theory and practice of children's theater. Evaluates play production techniques and literature for an audience of children. Includes analysis of plays for children and actual experience in acting, and producing children's plays for public presentation. Field trips are required.

OCCUPATIONAL — WELDING

VOC WL30 — Metal Sculpture

For students interested in art seeking the proper operation of welding processes related to the sculpting industry. Emphasizes the fundamentals of three-dimensional design. Includes demonstrations and exercises in welding as it relates to the art industry.

VOC WL40 — Introduction to Welding

Fundamentals of welding processes related to the areas of fabrication, construction, machine tool, aerospace and the transportation industries.

VOC WL50 — Oxyacetylene Welding

Oxyacetylene fusion welding, non-fusion welding and cutting. Develops understanding of and fundamental skills in modern welding practices.

VOC WL51 — Basic Electric Arch Welding

Basic electric arc welding, weld symbols, standard electrode and alloy electrode selection, American Welding Society (A.W.S.) procedure for certification.

VOC WL53A — Welding Metallurgy

Designed for students seeking a career in welding and welding inspection. Covers structure of matter, chemical, physical and mechanical properties of metals, principles of alloying, solid state diffusion, plastic deformation and heat treatment.

VOC WL60 — Print Reading and Computations for Welders

Reading prints and performing computations for welding fabrication operations. Interpreting and visualizing prints, title blocks, welding symbols, specifications, notes, and bills of materials. Computations necessary to calculate materials, costs, sizes, and fractional, decimal and metric conversions.

VOC WL70A — Beginning Arc Welding

Develops manipulative skills and techniques for the beginning student welder on the shield metal arc (SMAW) and the flux cored arc (FCAW) welding processes in the flat and horizontal positions using AC and DC welding currents on carbon steel.

VOC WL70B — Intermediate Arc Welding

A continuation of Beginning Arc Welding (WELD 70A). Emphasis is on welding high alloy steel with both SMAW and FCAW processes in the vertical and overhead positions. Designed to refine previously acquired welding skills.

VOC WL70C — Certification for Welders

Study of building construction for the advanced arc welding student. Special emphasis will be placed on welding symbols and the American Welding Society's (AWS) D1.1 and D1.3.

VOC WL80 — Fabrication and Construction Welding

Theory and practical applications of welding used in industry and construction. Designed to adapt and upgrade skills to industry standards. Includes project models such as ornamental iron gates and fences and material storage components.

VOC WL81 — Pipe and Tube Welding

Advanced course designed to enable students with "all positions" welding skills in SMAW to apply welding skills to the pipe welding industry. Welding processes will include SMAW, GRAW, GMAW, FCAW on a variety of materials and configurations on sub-critical and critical piping and tubing.

VOC WL90A — Gas Tungsten Arc Welding

Advanced level class in Gas Tungsten Arc Welding (GTAW, also known as TIG) of steel, aluminum, CRES and exotic metals. All position welds with many surfaces and transitions.

VOC WL90B — Semiautomatic Arc Welding Process

An integrated review of Semiautomatic Welding Processes including Gas Metal Arc Welding (GMAW), Flux Cored Arc Welding (FCAW), Submerged Arc Welding (SAW) with solid and tubular wires with and without gas shielding. All position welds with many varying thickness will be covered.

VOC WL91 — Automotive Welding, Cutting and Modification

Instruction in the art of welding and cutting on metals commonly used in the automotive industry. Gas Metal Arc (MIG), Gas Tungsten Arc (GTAW), PlasmaArc cutting and oxyfuel cutting and welding will be covered.

OCCUPATIONAL — WOODWORKING

VOC WD01 — Woodworking - Beginning

Designed for students with little or no wood- working experience. Includes use of hand tools and power woodworking equipment with an emphasis on safety.

VOC WD02 — Intermediate Woodworking

Prerequisite: VOC WOOD 01 or equivalent experience. Intermediate woodworking which includes designing, cost analysis, craftsmanship and occupational opportunities in the field. Elementary joinery, adhesives, simple production techniques, and wood finishes will be covered.

VOC WD03 — Cabinetmaking/Woodworking

Students who wish to take this course must have completed a beginning woodworking class. Project proposals are created by students in accordance with their background and interests. Includes recognition of wood varieties, their basic characteristics and applications.

COLLEGE POLICIES

COLLEGE POLICIES

Alcohol and Other Drugs

The possession or consumption of alcoholic beverages or illegal drugs prior to, or during any College-sponsored activity, on or off-campus, by any person attending, regardless of age, is forbidden by State law.

The Federal government has mandated that as of October 1, 1990, there will be no drug usage by students, staff, or faculty on college campuses anywhere in the United States. Please see the latest *Schedule of Classes* for the College's Alcohol and Other Drugs Policy.

Animals on Campus

Board Policy does not allow for any animals on campus except as provided for by the California Penal Code, Section 365.5 (specially trained guide, signal, or service dogs). Leaving a pet in a parked vehicle, no matter what provisions are made for its safety, may constitute unnecessary suffering or cruelty which is a violation of California Penal Code 597.

Campus Disturbances

In accordance with California Penal Code (P.C. 626.6), the willful disturbance of classes, College activities, or procedures is a misdemeanor.

Campus Hours

The College offers instruction between the hours of 6:30 a.m. and 10:00 p.m., Monday through Sunday. Office hours vary depending on the services provided. Refer to the latest *Schedule of Classes* or call for specific office hours.

Children on Campus

While on the campus of Mt. San Antonio College, children under 12 years of age who are not approved for enrollment must be directly supervised at all times by a responsible adult. Such children shall not be left unattended in College buildings, outdoor areas, or in private automobiles.

Classroom Visitors

No person may be allowed to attend a regularly scheduled class unless officially registered for that class. Permission to visit a class must be secured from the professor. A visitor shall not attend class on a regular basis. Examples of visitors include: guest speakers, student friends, potential students, or minor children of officially registered students. Unauthorized visitors may be removed from the classroom by request of the Division Dean or designee, or other manager of the Instruction or Student Services Team.

Dress Regulation

Students are expected to dress in accordance with commonly accepted standards of appropriateness. It is mandatory that shoes be worn as general campus attire.

Driving and Parking

Users of Mt. San Antonio College campus roads and parking areas must observe and obey all traffic laws of the State of California and the College traffic and parking regulations adopted pursuant to Section 21113 of the California Vehicle Code and the Mt. San Antonio College Board of Trustees.

All four-wheeled vehicles parked in designated student lots MUST bear a valid parking permit for the semester enrolled. The Student Parking Permit is valid in designated student lots except in the spaces controlled by parking meters or reserved signage. Free 30-minute parking is available north of the Bookstore, west of the Administration Building, and south of the Performing Arts Center. Permit parking regulations are strictly ENFORCED during the Fall, and Spring semesters and summer and winter sessions from 7:00 a.m. to 10:00 p.m. Monday through Thursday, and Friday 7:00 a.m. to 4:00 p.m.

Eye Protection

Pursuant to the Education Code, the following regulation regarding eye protective devices shall be observed: Students, teachers, and visitors shall wear approved eye protective devices in all classes, shops, and laboratories when they are engaging in or observing the use of hazardous materials likely to cause injury to the eyes. Such eye protective devices shall meet the requirements of the American Standards Association Safety Code.

Academic Honesty

All members of the academic community have a responsibility to ensure that scholastic honesty is maintained. Faculty has the responsibility of planning and supervising all academic work in order to encourage honest and individual effort, and of taking appropriate action if instances of academic dishonesty are discovered.

Honesty is primarily the responsibility of each student. The College considers cheating to be a voluntary act for which there may be reason, but for which there is no acceptable excuse. It is important to understand that collaborative learning is considered cheating unless specifically allowed for by the professor.

Cheating and Plagiarism

Cheating

Professors have the responsibility of planning and supervising all academic work to encourage honest and individual effort, and of taking appropriate action if instances of academic dishonesty are discovered. However, honesty is primarily the responsibility of each student. The College considers cheating to be a voluntary act for which there may be reasons, but for which there is no acceptable excuse. It is important to understand that collaborative learning is considered cheating unless specifically allowed by the professor. The term "cheating" includes but is not limited to:

Plagiarism

- Receiving or knowingly supplying unauthorized information
- Using unauthorized material or sources
- Changing an answer after work has been graded and presenting it as improperly graded
- Illegally accessing confidential information through a computer
- Taking an examination for another student or having another student take an examination for you
- Forging or altering registration or grade documents

The professor who determines that a student has cheated may give the student a failing grade for the assignment or for the course, or may drop the student from the course. Since the student has failed to abide by the standards of academic honesty, the professor has a right to give an "F" for the assignment or the course even though the student may have successfully and, presumably, honestly passed the remaining portion of the assignment or course. If the professor issues a failing grade for the course or drops the student, the actions shall be reported to the Dean of Student Services, or Director of Student Life. An professor may also recommend that appropriate action be taken under provisions of the Administrative Regulations and Procedures on Student Discipline.

Plagiarism

"Plagiarism is a direct violation of intellectual and academic honesty. Although it exists in many forms, all plagiarism refers to the same act: representing somebody else's words or ideas as one's own. The most extreme forms of plagiarism are the use of material authored by another person or obtained from a commercial source, or the use of passages copied word for word without acknowledgment. Paraphrasing an author's idea or quoting even limited portions of his or her text without proper citation is also an act of plagiarism. Even putting someone else's ideas into one's own words without acknowledgment may be plagiarism. In none of its forms can plagiarism be tolerated in an academic community. It may constitute grounds for a failing grade, probation, suspension, or expulsion."

"One distinctive mark of an educated person is the ability to use language correctly and effectively to express ideas. Faculty assign written work for the purpose of helping students achieve that mark. Each instructor will outline specific criteria, but all expect students to present work that represents the student's understanding of the subject in the student's own words. It is seldom expected that student papers will be based entirely or even primarily on original ideas or original research."

"Therefore, to incorporate the concepts of others may be appropriate with proper acknowledgment of sources, and to quote others directly by means of quotation marks and acknowledgments, is proper. However, if a paper consists entirely of quotations and citations, the paper should be rewritten to show the student's own

understanding and expressive ability. The purpose of the written assignment (i.e., development of communication and analytic skills) should be kept in mind as each paper is prepared. It should not be evaded through plagiarism."*

* Adopted, with permission of California State University, Los Angeles, from their policy printed in the 1987-88 General Catalog.

Non-Discrimination Policy

Mt. San Antonio College provides opportunities for the pursuit of excellence for all students and staff through its educational programs and services. The purpose of all programs, services, activities, conferences and college-endorsed competitions is to enrich the quality of human life. The College will provide open access to a college education and all support services without regard to sex, race, color, religious creed, national origin, ancestry, age over 40, marital status, physical or mental disability (including HIV & AIDS), sexual orientation, or Vietnam Era Veteran Status. The lack of English language skills will not be a barrier to admission. Policies and grievance procedures for unlawful discrimination and complaint procedures for sexual harassment for students and employees may be obtained by contacting the following individuals:

Trinda Hoxie, Director

Human Resources/Affirmative Action Officer Human Resources Office Building 4, Room 230, Ext. 4225

Audrey Yamagata-Noji, *Vice President* Student Services Student Services Center, Ext. 4505

Carolyn Keys, *Dean of Student Services* Building 9C, Room 1A, Ext. 4525

Sexual Harassment & Sexual Violence

Sexual violence, including sexual assault, harassment, rape and stalking, are crimes that are not tolerated on this campus. Mt. San Antonio College has adopted Board policies and procedures to address sexual crimes, sanctions for offenders, and to outline access to treatment and general information for victims (Board Policy 3430, 3500, 3540). All applicable punishment, including criminal charges, disciplinary action, etc., shall be applied whether the violator is an employee, student or member of the general public.

Services available to help assure your safety include:

- Campus Escorts who are available during evening hours to assure your safety on campus and in parking lots. They are provided at your request, please call ext. 4233.
- Contact **Student Life Office** at **ext. 4525** to report incidents.

- Student Health Services provides personal counseling and medical attention.
- Blue emergency telephone towers that are located throughout the campus and parking lots for you to access Public Safety immediately should you need assistance with any emergency occurrence.
- Public Safety can be reached by calling the campus number at (909) 594-5611, ext. 4555.

911 for any emergency. Be prepared to identify your exact location.
 For additional information, go to *www.mtsac.edu/students*

Standards of Conduct

Board Policy, Section 5500 Adopted 6/23/04 Copies of the Standard of Conduct Policy can be obtained in Building 9C.

The College President/CEO shall establish procedures for the imposition of discipline on students in accordance with the requirements for due process of the federal and State law and regulations.

The procedures shall clearly define the conduct that is subject to discipline, and shall identify potential disciplinary actions, including but not limited to the removal, suspension, or expulsion of a student.

The Board shall consider any recommendation from the College President/CEO for expulsion. The Board shall consider an expulsion recommendation in closed session unless the student requests that the matter be considered in a public meeting. Final action by the Board on the expulsion shall be taken at a public meeting.

The procedures shall be made widely available to students through the College catalog and other means.

The following conduct shall constitute good cause for discipline, including but not limited to the removal, suspension or expulsion of a student:

- 1. Causing, attempting to cause, or threatening to cause physical injury to another person.
- Possession, sale or otherwise furnishing any firearm, knife, explosive or other dangerous object, including but not limited to any facsimile firearm, knife or explosive, unless, in the case of possession of any object of this type, the student has obtained written permission to possess the item from a College employee, which is concurred with by the College President/CEO.
- 3. Unlawful possession, use, sale, offer to sell, or furnishing, or being under the influence of, any controlled substance listed in Chapter 2 (commencing with Section 11053) of Division 10 of the California Health and Safety Code, an alcoholic beverage, or an intoxicant of any kind; or unlawful possession of, or offering, arranging or negotiating the sale of any drug paraphernalia, as defined in California Health and Safety Code Section 11014.5.

- 4. Committing or attempting to commit robbery or extortion.
- 5. Causing or attempting to cause damage to College property or to private property on campus.
- 6. Stealing or attempting to steal College property or private property on campus, or knowingly receiving stolen College property or private property on campus.
- 7. Willful or persistent smoking in any area where smoking has been prohibited by law or by regulation of the College.
- 8. Committing sexual harassment as defined by law or by College policies and procedures.
- Engaging in harassing or discriminatory behavior based on national origin, religion, age, sex (gender), race, color, medical condition, ancestry, sexual orientation, marital status, physical or mental disability, or because a person is perceived to have one or more of the foregoing characteristics.
- Willful misconduct that results in injury or death to a student or to College personnel or which results in cutting, defacing, or other injury to any real or personal property owned by the College or on campus.
- 11. Disruptive behavior, willful disobedience, habitual profanity or vulgarity, or the open and persistent defiance of the authority of, or persistent abuse of, College personnel.
- 12. Cheating, plagiarism (including plagiarism in a student publication), or engaging in other academic dishonesty.
- 13. Dishonesty, forgery, alteration or misuse of College documents, records or identification; or knowingly furnishing false information to the College.
- 14. Unauthorized entry upon or use of College facilities.
- 15. Lewd, indecent or obscene conduct on College-owned or controlled property, or at College-sponsored or supervised functions.
- 16. Engaging in expression which is obscene, libelous or slanderous; or which so incites students as to create a clear and present danger of the commission of unlawful acts on College premises, or the violation of lawful College administrative procedures, or the substantial disruption of the orderly operation of the College.
- 17. Persistent, serious misconduct where other means of correction have failed to bring about proper conduct.
- 18. Unauthorized preparation, giving, selling, transfer, distribution, or publication, for any commercial purpose, of any contemporaneous recording of an academic presentation in a classroom or equivalent site of instruction, including but not limited to handwritten or typewritten class notes, except as permitted by any College policy or Administrative Procedure.
- 19. Harassment of students and/or College employees that creates an intimidating, hostile, or offensive environment.

Student Complaints/Grievance Process

Students are protected against capricious, arbitrary, unreasonable, unlawful, false, malicious or professionally inappropriate evaluations or behavior by a faculty member.

Student complaints may be classified as grievances and fall into three categories: Academic, Non-Academic and Discrimination Complaints. Academic grievances involve grades. To grieve a grade, a student must prove that the professor issued a grade by mistake, fraud, bad faith, or incompetence (Education Code 76224). Non-Academic grievances include: illegal discrimination, sexual harassment, financial aid, violation of College policies, any violation of Title IX or Section 504 related to students with disabilities.

Grievances must be filed no later than 30 school days (Monday - Friday when classes are in session) after the beginning of the primary term following the alleged violation, or 30 school days from the time that the student learns of the basis for the grievance. To begin the formal grievance process, students may pick up Grievance Procedures and forms from the Student Life Office, Building 9C. It is recommended that students meet with the Student Life Director regarding the grievance prior to starting the process since timelines are established for every step of the process and must be met precisely.

The process for filing and pursuing a grievance includes two levels: in **Level I** (informal level) the student picks up the grievance forms and official procedures from Student Life and attempts to resolve the problem by meeting first with the faculty member (or staff member/administrator for non-academic grievances) and then to the faculty member's department chair or immediate supervisor. If the complaint is not resolved at that level, the student will meet with the division dean of the division of the faculty defendant in an effort to resolve the problem. In the event that the problem cannot be resolved within 10 school days, the student may proceed to **Level II** (formal grievance) in which the student after completing the forms takes all signed forms and documents to the Student Life Office within the established deadlines.

A Grievance Review Committee chaired by the Dean of Student Services will review the grievance documents. This Committee may forward the grievance for a hearing that provides for a formal hearing process to seek clarification from the parties involved. If the student or faculty/staff member chooses to appeal the decision of the Committee, the appeal is submitted to the College President. The final appeal process resides with the Board of Trustess; their decision concludes the grievance process.

Smoking on Campus

Student, employee, and visitor health is a primary concern of Mt. San Antonio College. Because of the clear evidence of the harmful nature of smoke inhalation and because of the general concern over air contamination, Mt. San Antonio College in accordance with California State law, bans smoking within all campus buildings and in any outdoor area within twenty feet of any exterior exit or entrance to such a building. This includes all College-leased and College occupied buildings. Further, smoking is banned in the swimming pool area, Hilmer Lodge Stadium, and in all college vehicles.

Academic Adjustments for Students with Disabilities

Under Federal and State laws, the College is required to make modifications to academic requirements and practices as necessary in order to ensure that they do not discriminate against a qualified student with a disability. The College is also required to have a policy and procedure for responding to students with verified disabilities who request academic adjustments. Students with disabilities have the right to receive reasonable academic adjustments in order to create an educational environment where they have equal access to instruction without fundamentally altering any course, educational program or degree. Copies of the Policy and Procedures for Providing Academic Adjustments for Students With Disabilities are available in Disabled Student Programs & Services, ext. 4290.

Reserve Officer Training Corps (ROTC)

Students interested in pursuing a military career can participate in an approved Reserve Officer Training Corps program offered through local universities. Programs include the Air Force ROTC Program offered through the University of Southern California (USC) and Harvey Mudd College. Other university ROTC programs include the Army ROTC programs at Cal Poly Pomona, USC and Cal State Long Beach. These programs are open to community college students pursuing an undergraduate degree, prior to transfer. Competitive one- to four-year scholarships are available to qualified applicants. Additionally, students may be eligible to receive money to cover books and other costs. Students interested in participating in an ROTC program are advised to contact the ROTC program at the participating university.

NOTICES

Equal Opportunity Statement

The Board of Trustees of Mt. San Antonio College has a commitment to establishing and maintaining a policy of equal educational and employment opportunities and prohibiting discrimination based on sex, race, color, religious creed, national origin, ancestry, age over 40, marital status, physical or mental disability (including HIV & AIDS), sexual orientation, or Vietnam Era Veteran Status. This commitment applies to educational programs, activities, service, and employment practices.

Notice of Students' Rights

Students at Mt. San Antonio College are notified annually of their rights under the act within this section of the *Catalog*. More detailed information on student rights is available from the Dean, Enrollment Management, including: 1) type of information and material contained within the student's educational record; 2) the official responsible for the maintenance of each type of record; 3) the procedure for student review and inspection of the educational record; 4) the procedure for challenging the contents of the educational record; 5) the charges to the student for reproducing copies of the record if requested; 6) the categories of information which the College has designated as Directory Information and to whom this information will be released unless the student objects; and 7) the rights of a student to file a complaint with the United States Department of Education concerning alleged failure of the College to comply with the provisions of the Act.

Federal Review Board

Students may file a complaint with the United States Department of Education, Room 5660, Independence Avenue, S.S., Washington, D.C. 20201, regarding alleged institutional violations of the Act.

Open Enrollment

All classes are open to all students who meet the course prerequisites and enrollment requirements, unless specifically exempted by statute. The College provides open access to all program offerings, opportunities, and support services without regard to sex, race, color, religious creed, national origin, ancestry, age over 40, marital status, physical or mental disability (including HIV and AIDS), sexual orientation, or Vietnam Era Veteran Status.

Public Safety

In compliance with the Clery Act, the College publishes an annual security report which contains information regarding campus crime statistics. This information may also be found on the website at *www.mtsac.edu* by clicking on Public Safety. Copies of the annual report can be obtained from the Public Safety Department, Building 4, Room 105. A Public Safety crime log is published bi-monthly in the student newspaper and brochures on Emergency Procedures are posted throughout the campus.

During the 2003-2005 calendar years, criminal offenses occurring on campus were reported to campus security authorities and local police agencies. Please see the Public Safety Department Statistical Crime Report listed in the box on the next page.

Emergency Procedures

Students and staff should report serious crimes and emergencies, i.e., fire/medical, occurring on campus to the Public Safety Department or call 911. When using an on-campus extension, call 9-911. Incidents may be reported to Public Safety by calling (909) 594-5611, ext. 4555,

^{20.} Violation of College rules and regulations including those concerning affiliate clubs and organizations, the use of College facilities, the posting and distribution of written materials, and College safety procedures.

PUBLIC SAFETY DEPARTMENT STATISTICAL CRIME REPORT

| Violation | 2006 | 2007 | 2008 |
|-----------------------|------|------|------|
| Murder | 0 | 0 | 0 |
| Rape | 0 | 0 | 0 |
| Robbery | 1 | 2 | 2 |
| Assault | 17 | 4 | 12 |
| Weapons Violation | 3 | 2 | 2 |
| Hate Crimes | 0 | 0 | 0 |
| Arson | 0 | 0 | 0 |
| Burglary | 11 | 8 | 6 |
| Burglary from Vehicle | 28 | 24 | 21 |
| Theft | 59 | 68 | 58 |
| Theft from Vehicle | 9 | 20 | 11 |
| Stolen Vehicle (GTA) | 26 | 16 | 17 |
| Vandalism | 16 | 26 | 15 |
| Liquor Law Violations | 1 | 1 | 2 |
| Illegal Drugs | 3 | 4 | 1 |
| Yearly Totals | 135 | 174 | 147 |

24 hours a day. During normal business hours, Public Safety may be contacted at Building 4, Room 105, or by calling ext. 4230. The Public Safety Department is located at the southeast portion of the campus off Bonita Drive in Building 48. Public telephone locations on campus have at least one phone that is equipped with a red emergency button that is a direct line to the Mt. SAC Public Safety Office during and after business hours. In the event of an emergency, students and staff are requested to make a prompt and accurate report to the Public Safety Department.

Enforcement

The Mt. San Antonio College Public Safety Department has the authority to enforce the Student Discipline Code of Conduct under the Education and Penal Codes of the State of California; and is the liaison with local police and sheriffs departments in cases of criminal actions.

Mt. San Antonio College District incident reports are not official police reports. If an official police report is required, the Los Angeles County Sheriffs Department in Walnut is the appropriate agency to contact.

Crime Prevention

The Public Safety Department's primary responsibility is the safety and security of all members of the College community. Every effort is made to inform students and staff of criminal activity or any other concern that may be an immediate threat to the safety and security of those on campus. Information and workshops on crime prevention are made available to College students and staff. It is the responsibility of every member of the campus community to act in ways that promote the safety of self, others, and the protection of District property.

Campus Emergency Phone System

Mt. San Antonio College has installed a campus wide emergency phone system. This system is divided into two primary segments. The inner campus system consists of emergency phones that are placed on the outside of selected campus buildings and are identified by the familiar blue light affixed to the top of the phone housing. The second segment of emergency phones consists of stand-alone emergency phone towers, located in open campus spaces, primarily in campus parking lots. These phone towers are identified by a blue light affixed to the top of the tower.

Use of any of these emergency phones will connect the user to Campus Security during normal business hours, located in Building 4. During hours when the campus is closed, the Emergency phones will connect the user directly to a cell phone carried by Campus Security Officers who are on duty 24 hours a day, 7 days a week.

Student Rights and Privacy Act

Following is a summary of the Mt. San Antonio College policy related to the Family Educational Rights and Privacy Act of 1974, O.L. 93-380, and Chapter 1297, Statutes of 1976, State of California:

Access to Educational Records

All former and present students have the right to review and inspect their educational records in the Office of Admissions and Records provided they make a written request fifteen (15) days in advance. Such a review will be under the direct supervision of a classified or certificated employee in the Admissions and Records Office. Expressly exempted from the right of review and inspection are the following materials:

- 1. Financial records of the parents of the student(s).
- 2. Confidential letters and statements of recommendation maintained by the College on or before January 1, 1975, provided that such letters or statements are not used for purposes other than those for which they were specifically intended.
- Records of instructional, supervisory, counseling, and administrative personnel which are in the sole possession of such personnel and are not accessible or revealed to any other person except a substitute.
- 4. Records of employees of Mt. San Antonio College, made and maintained in the normal course of business which relate exclusively to such person in that person's capacity as an employee, are not available for use for any other purpose.
- 5. Records of students made and maintained by the Student Health Services, the College nurse, the College physician, and the College therapist, which are used in the treatment of students and are not available to anyone other than persons providing such treatment. However, such a record may be personally reviewed by a physician or other appropriate professional of the student's choice.

Release of Educational Records Information

- 1. Any release of a student's educational records, with the exception listed below, must be made with the student's written consent.
- 2. The College may release copies of or otherwise divulge material in the student's educational records only to the official agencies, groups, officials, or individuals specifically mentioned below:
 - a. College staff members; provided that such employees have a legitimate educational interest to inspect such a record.
 - b. Representatives of the Comptroller General of the United States, the Secretary of Education, and administrative head of an educational agency, state education officials, and the United States Office of Civil Rights, where such information is necessary to audit a program.
 - c. Accrediting organizations in order to carry out their accrediting functions.
 - d. Organizations conducting studies on behalf of the institution.
 - e. Officials of other schools or school systems in which the student seeks or intends to enroll subject to the rights of students.
 - f. Agencies or organizations in connection with a student's application for financial aid.
 - g. Organizations conducting studies for, or on behalf of, educational agencies or institutions for the purpose of developing, validating, and administering predictive tests, administering student aid programs, and improving instruction, if such studies are conducted in such a manner as will not permit the personal identification of students or their parents by persons other than representatives of such organizations and such information will be destroyed when no longer needed for the purpose for which it is compiled.
 - h. Appropriate persons in connection with an emergency if the knowledge of such information is necessary to protect the health and safety of the student or other persons.
 - i. Courts or other agencies in compliance with a subpoena or judicial order. A reasonable effort will be made to notify the student in advance of the compliance by the College.

3. Directory Information:

a. "Directory Information" means a student's name, community of residence, 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 the most recent previous public or private school attended by the student.

- b. Any student desiring to withhold "Directory Information" may file a written request with the Dean, Enrollment Management, within fifteen (15) days of the opening day of each semester or session that the student does not want such information released.
- c. The College reserves the right to limit or deny the release of specific categories of directory information based upon a determination of the best interests of the student(s).

The 1996 Soloman Amendment

The 1996 Solomon Amendment is federal law that compels institutions that receive federal funding to provide (upon request) directory information, plus address, phone number, age and class level to military personnel so that these personnel can recruit students.

Transfer of Information to Third Parties

Educational records or personal information transferred to other institutions or agencies will not be transferred to a third party without the written consent of the student.

Student Right-to-Know Rates Completion Rate: 28.39% Transfer Rate: 22.63% From 2004 COHORT Data

In compliance with the Student-Right-to-Know and Campus Security Act of 1990 (Public Law 101-542), it is the policy of the Mt. San Antonio Community College District and Mt. San Antonio College to make available its completion and transfer rates to all current and prospective students. Beginning in Fall 2004, a cohort of all certificate-, degree-, and transfer-seeking first-time, full-time students were tracked over a threeyear period. These rates do not represent the success rates of the entire student population at Mt. San Antonio College, nor do they account for student outcomes occurring after this three-year tracking period.

Based upon the cohort defined above, 28.39 percent attained a certificate or degree or became 'transfer- prepared' during a three-year period, from Fall 2004 to Spring 2007. Students who are 'transfer- prepared' have completed 56 transferable units with a GPA of 2.0 or better.

Based on the cohort defined above, 22.63 percent transferred to another postsecondary institution, (UC, CSU, or another California Community College) prior to attaining a degree, certificate, or becoming 'transfer-prepared' during a five semester period, from Spring 1998 to Spring 2007.

Section 13

Faculty and Academic Administrators

Α

THE FACULTY

Albertson, Toni (2006)

English, Literature & Journalism B.A., University of La Verne M.A., University of Nebraska

Alexander, Carolyn (1991)

Fine Arts B.A., Scripps College M.F.A., Tyler School of Art, Temple University

Allen, Jerry B. (1971)

History, Art History, Geography, Political Science B.A., M.A., Brigham Young University Ph.D., Claremont Graduate School J.D., Loyola University School of Law

Allende, Kristina (2001) English, Literature & Journalism

A.A., Mt. San Antonio College B.A., M.A., California State University, Fullerton

Allen-Kodama, Linda (1991)

Fine Arts A.A., Los Angeles City College B.A., California State University, Long Beach M.F.A., California State University, Fullerton

Al-Malood, Fawaz (2003)

Consumer & Design Technologies B.S., University of South Carolina M.B.A., Columbus University, Mississippi Ph.D., Pacific Western University, Hawaii

Alvarez, Hansel (2007)

English, Literature & Journalism B.A., California State University, San Bernardino M.A., California State Polytechnic University, Pomona

Alvarez-Galvan, Maya (2000)

English, Literature & Journalism B.A., M.A., California State University, Los Angeles M.A., California State Polytechnic University, Pomona Ph.D., University of Southern California

Ammirato, Joseph S. (1997) Commercial and Entertainment Arts B.F.A., University of Utah

Anderson, Alison (2006)

Biological Sciences B.S., California State University, Bakersfield M.S., California State Polytechnic University, San Luis Obispo

Anderson, Cynthia B. (1986) Biological Sciences B.S., Arizona State University

M.S., University of Illinois Anderson, Daniel P. (2000) Physics, Engineering B.S., University of California, Los Angeles M.S., California State Polytechnic University, Pomona

Anderson, Richard (1992)

Air Conditioning & Welding A.S., Mt. San Antonio College

Anderson-Perry, Carolyn (2004) Nursing A.S.N., Los Angeles Southwest College B.S.N., California State University.

Dominguez Hills M.S.N., University of Phoenix

Andrade, Renée (1984)

Foreign Languages A.A., Los Angeles City College B.A., California State University, Los Angeles M.A., Ph.D., University of California, Irvine

Andrews, Barry (2001)

Ano, Gene (2006)

Computer Information Systems B.S., Indiana University M.S., California State University, Fullerton

В

Psychology, Education M.A., Ph.D., Bowling Green State University

Aquino, Lloyd (2007) English, Literature & Journalism B.A., M.A. California State Polytechnic University, Pomona

Arballo, Madelyn A. (1998) Director, Adult Basic Education B.A., Pitzer College M.A., California State University, Los Angeles

Archibald, Jeffrey D. (2000)

Communication B.A., Cornell University M.S., Illinois State University

Arnold, Robert (2008)

Sign Language & Interpreting B.A., California State University, Northridge M.A., Gallaudet University

Arterburn, Pamela (1986) English, Literature & Journalism B.A., M.A., California State Polytechnic University, Pomona

Arvidson-Perkins, Genene (1988) Nursing A.S., Mt. San Antonio College B.S., California State University, Fullerton M.S., California State University, Los Angeles

PHN Certificate Astorga, Juan Carlos (2005)

Student Services-Upward Bound B.A., University of California, San Diego M.A., San Diego State University

Austin, Jerry D. (2003)

Director, Fire Technology A.A., Santa Ana College B.V.E., California State University, Long Beach M.A., Chapman University

Avila, Rocio (2006)

English, Literature & Journalism B.A., California State Polytechnic University, Pomona M.A., California State University, Fullerton

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Bacigalupi, Stacy (2006) Psychology, Education B.A., University of California, Santa Barbara M.A., California State University, Fullerton

Bartman, Sydney (1986) English, Literature & Journalism A.A., Mt. San Antonio College B.A., University of La Verne M.A., University of California, Riverside

Beam, Teresa (1991)

Chemistry B.S., Ohio University M.S., California State University, Fullerton

Becker, Liza (1998)

Director, ESL B.A., California State University, Los Angeles M.S., California State University, Fullerton

Beeman, Laura (1996)

Physical Education B.A., California State University, San Bernardino M.A., Azusa Pacific University

Birca, Alina (2005)

Mathematics, Computer Science B.S., University Alexsandru Ioan Cuza of Iasi M.A., California State University, San Bernardino

Blackmore, Deborah L. (1974)

Dean, Physical Education B.S., M.S., California State Polytechnic University, Pomona

Blake-Judd, Jemma (1990)

Associate Dean, Technology & Health B.A., M.A., California State Polytechnic University, Pomona

Blyzka, John V. (2001)

Computer Information Systems B.S., University of California, Irvine M.S., California State University, Fullerton

Boehner-Staylor, Maya (2001)

English, Literature & Journalism B.A., California State University, Los Angeles M.A., Northwest Missouri State University

Borella, Frances (1999)

Biological Sciences A.A., Mt. San Antonio College B.S., California State Polytechnic University, Pomona M.A., Ph.D., University of California, Riverside

THE FACULTY

Boroch, Deborah J. (1990) Dean, Instructional Services A.A., Mt. San Antonio College B.S., Brigham Young University M.A., California State University, Fullerton Ed.D., University of La Verne

Boryta, Mark (2001) Earth Sciences, Astronomy B.A., Amherst College M.S., Ph.D., New Mexico Institute of Mining and Technology

Bowen, Melinda (2006) Physical Education/Head Coach, Women's Soccer B.A., California State Polytechnic, Pomona M.A., Azusa Pacific University

Bowen, Robert (2006) *Music* B.A., M.A., University of California, Santa Barbara M.F.A., Ph.D., Princeton University

Bower, Patricia M. (1990) Learning Assistance B.S., M.A., University of California, Los Angeles

Boyer, Michelle (2007) Nursing B.A., Plattsburgh State University M.A., Syracuse University

Brackenhoff, Mary (1991) English, Literature & Journalism B.A., Southern Illinois University M.A., Drake University Ph.D., University of Nebraska

Bradley, Julie (2005) Disabled Student Programs & Services B.A., University of California, Riverside M.S., California State University, Los Angeles

Bradshaw, George R. (2007) Dean, Enrollment Management B.A., M.A., California State University, San Bernardino Ph.D., University of Utah Brantingham, John (2002)

English, Literature & Journalism B.A., California State Polytechnic University, Pomona M.F.A., California State University, Long Beach

Braver, Lane (1987) Medical Services

A.A., Santa Monica College P.A., U.S.C. School of Medicine M.S.H.P.E, Western University, Pomona

Bray-Ali, Julie (2001) Earth Sciences, Astronomy B.A., California State Polytechnic University, Pomona M.S., University of Southern California

Bridges, Karen (2007) Earth Sciences, Astronomy B.A., Smith College, Northampton M.S., University of Massachusetts, Amherst

Bro, Glenda (1991) American Language B.A., Dana College M.S., University of Nebraska TESOL Certificate, California State University, Fullerton

Brouillette, Ronald (1989) English, Literature & Journalism B.A., M.A., California State University, Fullerton

Brown, Ronald (2006) Fine Arts B.F.A., Art Center College of Design

Burgoon, Steve (2002) Commercial and Entertainment Arts B.A., University of Phoenix M.A., California State Polytechnic University, Pomona

Burley, Virginia (1986) Vice President, Instruction B.A., California State University, Northridge M.A., Ph.D., Claremont Graduate University

Burman, Ema (2007) Learning Assistance B.S., M.Ed., University of La Verne Burnes, Fatemeh (1992)

Fine Arts B.A., Tehran University, Iran B.A., M.F.A., California State University, Fullerton

Burnett, Cynthia D. (1997) Counseling B.S., Northern Illinois University M.A., International Christian Graduate University M.S., California State University, Long Beach

Burns, Donna (2002) Dean, Continuing Education B.S., M.A., Azusa Pacific University

Burton, Robert E. (1990) Aircraft Maintenance & Manufacturing A.S., Mt. San Antonio College F.A.A. Certified, Airframe and Powerplant F.A.A. Certified, Inspector Authorization

C

Calkins, Katherine (1974) *Music* A.A., Fullerton College B.M., M.A., California State University, Fullerton

Calzada, Silver (1999) Counseling B.A., Pitzer College M.A.T., Harvard University

Cannon, Holly (1988) English, Literature & Journalism B.A., M.A., California State University, Northridge

Cannon, Kathleen (2005) History, Art History, Geography, Political Science B.A., M.A., M.F.A., Ph.D., University of California, Los Angeles

Caputo, Mario V. (1993) Earth Sciences, Astronomy B.S., San Diego State University M.S., Northern Arizona University Ph.D., University of Cincinnati

Castillejos, Manuel (1989) Foreign Languages B.A., California State University, San Diego M.A., California State University, Fullerton Cavion, Deborah (1994) Physical Education

B.S., California State Polytechnic University, Pomona M.A., Azusa Pacific University

Cevallos-Castaneda, Susana (2005) Learning Assistance B.A., M.S., California State University, Fullerton

Chang, Chih-Ping (Andrew) (1997) Foreign Languages B.Ed., National Changhwa University of Education M.A., National Taiwan Normal University Ph.D., University of Southern California

Chapman, C. Neil (1997)

Commercial and Entertainment Arts B.A., California State University, Long Beach M.A., California State University, Fullerton Ed.D., University of La Verne

Charbonneau, David (2007) Director, The Writing Center M.A., Northern Illinois University Ph.D., University of Wisconsin - Madison

Chavez, Dolores (2008) Mathematics, Computer Science B.A., University of California, Riverside M.A., California State University, San Bernardino

Chavez, Raul S. (2000)

History, Art History, Geography, Political Science B.S., California State Polytechnic University, Pomona M.A., California State University, Los Angeles Ph.D., University of California, Riverside

Chen, Jenny S. (1998) Chemistry B.S., University of California, Irvine M.S., Ph.D., University of California, Los Angeles

Chen, Gou-Ling Susie (2003)

Nursing A.D.N., National Taipei College of Nursing B.S.N., Kaohsiung Medical College M.A., Oklahoma City University M.N., University of California, Los Angeles Lifetime Instructor Credential, National Taiwan Normal University

Chen, Meghan (2000) Dean, Library & Learning Resources B.S., University of California, Los Angeles M.P.A., California Lutheran University M.A., California State University, Los Angeles

Chevalier, Jason (2000)

THE FACULTY

Music B.A., M.A., California State University, Fullerton

Christopher, Micol (2005) Earth Sciences, Astronomy B.A., Harvard University M.S., Ph.D., California Institute of Technology

Churchill, Peter (2005) English, Literature & Journalism B.A., M.A., California State University, Fullerton

Condra, Denise (2006) Nursing B.A., Whittier College B.S.N., M.S.N., Azusa Pacific University

Cooper Mark J. (1997) Biological Sciences B.S., M.S., California State Polytechnic University, Pomona

Coreas, Kelly (2000) Respiratory Therapy A.S., East Los Angeles College B.S., Loma Linda University M.S., Western University Pomona

Craft, Thomas (2007) Physical Education B.A., San Diego State University M.A., Azusa Pacific University

Crespo, Beverly Baker (1980) Office Technology A.A., Long Beach City College B.S., California State University, Long Beach M.S., California State Polytechnic University, Pomona

Curran, Karen O'Brien (1998) Child Development B.S., California State University, Fullerton M.S., Pacific Oaks College

D

Daland, William (2005) Counseling B.A., California State University, Fullerton M.S., California State University, Long Beach

Daum, Sarah (1998) Dean, Technology & Health A.B., Stanford University M.S., University of Michigan Ed.D., Nova Southeastern University

Davis, Maria (2005)

Consumer Science & Design Technologies B.A., American InterContinental University

Degtyareva, Anna (1999)

Computer Information Systems B.S., M.S., Leningrad University for Economics Engineers M.S., California State University, San Bernardino

Deines, Craig B. (1997)

Fine Arts B.A., M.F.A., Central Washington University

DePaola, Gina (1991) English, Literature & Journalism B.S., Metropolitan State College, Denver M.S., California State University, Long Beach

Diederichs, Melanie (1991) Child Development A.A., Riverside City College B.S., M.Ed., California State University, Fullerton

Diem, Andrea (1991) Sociology, Philosophy B.A., University of California, San Diego M.A., Ph.D., University of California, Santa Barbara

D'Incognito, Patrick (1989) Aircraft Maintenance & Manufacturing A.S., Mt. San Antonio College F.A.A. Certificate, Airframe and Powerplant

F.A.A. Certificated Designated Mechanic Examiner Di Mauro, Eileen (1991) Chemistry

B.A., University of California, Santa Barbara M.S., University of California, Irvine

Distante, Debbie (2000) Librarian B.A., Morningside College M.A., University of Iowa

Domico, Brenda L. (1997) Accounting & Management B.S., M.B.A., California State Polytechnic University, Pomona Certified Managerial Accountant

Dorough, George D. (1991) Sign Language A.A., Rochester Institute of Technology B.A., M.Ed., University of Massachusetts

Dougherty, Michelle (2007) English, Literature & Journalism

B.A., M.A., California State Polytechnic University, Pomona

Dowdle, Michael (2005)

Psychology, Education A.A., Butte Community College B.A., M.A., California State Polytechnic University, Chico

Dua, Amrik Singh (1990) Business Administration B.A., M.A., Panjab University M.A., Dalhousie University Ph.D., Southeastern University

Dyer, Dorothy J. (1985) *RHORC* B.S.N., California State University, Los Angeles Standard Designated Teaching Credential: Subject Field Nursing, Special Sciences and Pan African Studies M.S., California State University, Los Angeles M.S., Nursing – Secondary in Nursing Education

California State University, Dominguez Hills

Ε

Earhart, Kimberly (2005) History, Art History, Geography, Political Science A.A., Riverside Community College B.A., M.A., Ph.D., University of California. Riverside

Eastman, Ralph M. (1980)

Theater B.A., Antioch College, Ohio M.A., Trinity College, Connecticut M.F.A., University of California, Los Angeles

Eatman, Elisabeth (2006)

Consumer & Design Technologies B.F.A., California State University, Long Beach

Edson, Thomas (2006)

English, Literature & Journalism B.A., University of California, Irvine M.A., Chapman University

Edwards, William (2005)

Mathematics, Computer Sciences B.S., M.S., California State Polytechnic University, Pomona

Eisley, Benjamin N. (1990)

Air Conditioning & Welding A.A., Cerritos College B.S., M.S., Eastern Michigan University

Ellwood, Jeffrey (2006)

Music B.M., Berklee College of Music M.M., California State University, Fullerton

Emanuel, Elaine S. (1998)

Office Technology A.S., Mt. San Antonio College B.S., University of La Verne M.A., University of Phoenix

Engisch, Paulette (2003)

Radiologic Technology A.S., Mt. San Antonio College B.S., University of St. Francis California C.R.T., Certified Radiologic Technologist California Certified Mammographer R.T., American Registry of Radiologic Technology R.T. (M), American Registry of Mammography

Engle, Tim (2006)

Disabled Student Programs & Services B.S., Liberty University, Lynchburg, VA M.A., Psy.D., Biola University, La Mirada Psy.D., Biola University, La Mirada

THE FACULTY

Enke, Gary D. (1990)

English, Literature & Journalism B.A., St. Joseph College M.A., Claremont Graduate School

Esslinger, Sandra (2002) History, Art History, Geography, Political Science M.A., University of Southern California Ph.D., University of California, Los Angeles

Estes Jr., Edwin (2008) Business Administration A.B., University of Southern California J.D., Pepperdine University School of Law

Estrada, Maria (2004) English, Literature & Journalism B.A., M.A., California State Polytechnic University, Pomona

Ezzell, Sun (2006) Learning Assistance B.A., M.A., Humboldt State University

F

Falzone, Michael (2001) *Fine Arts* B.F.A., Brooks Institute M.F.A., Claremont Graduate University

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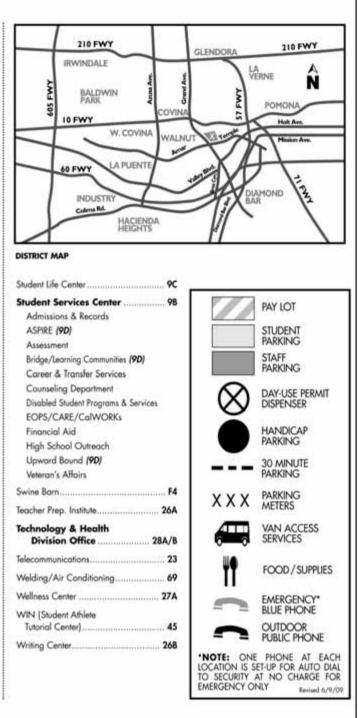
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The images displayed on the covers of this Catalog highlight the eclectic mix of historic, traditional and contemporary architecture as well as the horticultural gems that one sees on Mt. SAC's sprawling 420-acre campus. Not only is Mt. SAC one of California's largest college campuses, it is fast becoming an aesthetic treasure.

Nestled below the San Jose Hills with Mt. San Antonio (Mt. Baldy) looming above, the campus is undergoing a major transformation with new and renovated facilities, tasteful landscaping, high-tech laboratories, and "greener" operating systems, thanks to construction bonds passed by local voters.

This comprehensive campus improvement effort speaks to Mt. SAC's commitment to build for the future by providing an inviting state-of-theart environment that fosters innovative instruction and learning. HEALTH CAREERS CENTER



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