

Mt. San Antonio College

legacy of excellence 1946-2011



2011~12 catalog

Acknowledgments Much appreciation to the following individuals

Much appreciation to the following individuals for their contributions to this Catalog:

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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 2011-12 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

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www.mtsac.edu

Our 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.

ANTONIO

A Legacy of Excellence

In the spirit of Mt. San Antonio College's 65th anniversary, we celebrate our legacy of excellence with the release of this 2011-12 *College Catalog*. It is a compilation of courses, programs, support services, degree offerings, and transfer information that you will need to chart your course to academic success. All of this represents our unwavering commitment—despite difficult economic times—to provide you the finest education, period!

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 resource guide to explore the vast scope of opportunities, services, and programs that Mt. SAC offers.

You will find a rich array of university transfer, career, and lifelong learning programs that can empower you with the knowledge and skills needed to succeed in a diverse and interconnected world. Be assured that our curriculum is in step with the fast-changing needs of today's dynamic employment sectors.

As we celebrate yet another milestone anniversary, Mt. SAC remains committed to its longstanding mantra: "students first and foremost." Your success is our paramount focus. And we invite you to take advantage of the college's vast array of resources to achieve it.

To the many freshmen who will enter Mt. SAC this fall, and to all current students, we welcome you with open arms and wish you much success as you now become a part of our "Legacy of Excellence."

Dr. William Scroggins President & CEO





Board of Trustees

Judy Chen Haggerty, *Esq., President* Rosanne M. Bader, *Vice President* Dr. Manuel Baca, *Clerk* Fred Chyr, *Member* Dr. David K. Hall, *Member* Bruno Hernandez, *Student Trustee*

Contents

Contents

| Accreditation and Changes in this Catalogi |
|--|
| President's Messageii |
| Contentsiii-v |
| College Calendar |
| College Directoryix |

SECTION 1 — The College

| Mt. San Antonio College | 1 |
|-----------------------------|---|
| History | 1 |
| Mission, Vision, and Values | 1 |
| College Organization | 4 |

SECTION 2 — Matriculation

| Admission and Registration | 6-8 |
|--|------------|
| Admissions | 6 |
| Application to the College | 6 |
| Residency Requirements | 6 |
| College Starter Program | 6 |
| Evaluation of Other College Coursework | 7 |
| Acceptance of Domestic Coursework from Accredited Colleges | |
| and Universities in the United States | 7 |
| Articulation with High Schools, ROPs and Adult Schools | 7 |
| Admission of International Students | |
| Registration | 8 |
| Schedule of Classes | 8 |
| Enrollment Fees and Expenses | |
| Refund of Fees | 8 |
| Cancelled Classes | 8 |
| Student Obligations | 8 |
| Assessment and Placement | 8-9 |
| Placement Tests | 8 |
| Placement Test and Eligibility Time Limits | 8 |
| Test Scores and Placement from Other Colleges | 9 |
| Appeals Process | 9 |
| Ability to Benefit | 9 |
| Orientation – Credit Students | 9 |
| Counseling/Advisement | 9 |
| Exemption from Matriculation | 9 |
| | |

| Pre-Collegiate Basic Skills Prerequisites, Corequisites and Advisories Challenging Prerequisites and Corequisites | 9 |
|---|---------|
| SECTION 3 — Academic Policies and Requirements | |
| Attendance and Enrollment | 11 |
| Academic Freedom | 11 |
| Attendance | 11 |
| Auditing Courses | |
| Dropping Courses and Withdrawing from the College | 11 |
| Student Unit Limits | 11 |
| Repeatable Courses | |
| Repeating Courses Previously Passed | 11 |
| Petitions for Exceptional Action | 11 |
| Limitations on Repeating Courses | 11 |
| Catalog Rights | |
| Continuous Residence | 12 |
| Credits and Grades | . 12-14 |
| Definition of a Unit of Credit | 12 |
| Classification of Students | |
| Grading System | 12 |
| Incomplete | 12 |
| Final Examinations | 12 |
| Early Examinations | 13 |
| Pass/No Pass Grades | 13 |
| Credit by Examination | |
| Advanced Placement Examinations in CSU General Education – Breadth Certification | 14 |
| International Baccalaureate Credit for Mt. SAC General Education Requirements | |
| for the Associate Degree | |
| Credit for Extra Institutional Learning | |
| Credit for Military Training | 15 |
| Honors | 15 |
| Academic Honors | 15 |
| Graduation Honors | 15 |
| Honors Program | |
| Alpha Gamma Sigma | 15 |
| Phi Theta Kappa | 15 |
| Academic Standards | 16 |
| Probation and Dismissal | |
| Appeals Process | |
| •• | |

Contents

| Records | 16 |
|----------------------------------|----|
| Definition of Educational Record | 16 |
| Academic Renewal | 16 |
| Transcripts | 16 |
| Challenge of Educational Records | |

SECTION 4 — Student Services and Student Life

| Student Services | |
|---|-----------|
| Admissions and Records | |
| The ASPIRE Program | |
| Assessment Center | |
| The Bridge Program | |
| Bursar's Office and Photo ID | |
| CalWORKs | |
| Career and Transfer Services | |
| Counseling Center | |
| Disabled Student Programs & Services (DSP&S) | |
| CARE (Cooperative Agencies Resources for Education) | |
| Extended Opportunity Programs & Services (EOPS) | |
| Financial Aid | |
| Student Health Services | |
| International Student Programs | |
| First Year Experience | 20 |
| Re-Entry Services | |
| Veterans' Services | |
| Security Escort Service | |
| Student Life | |
| Student Life Office | |
| Student Life Center | |
| Student Government | |
| Campus Clubs and Organizations | |
| | |
| SECTION 5 — Instruction and Learning Resources | |
| Instruction | |
| Distance Learning Program | |
| Work Experience Education | |
| The Writing Center | |
| Math Activities Resource Center | |
| Transfer Math Activities Resource Center | |

| Library and Learning Resources |
|---|
| Learning Assistance Center |
| Library |
| Media Services |
| Computer Aided Graphics, Visual Arts and Design Programs |
| Computer Programming, Computer Security, and Computer Servicing |
| SECTION 6 — Campus Facilities |
| Campus Facilities |
| Art Gallery |
| Athletic Facilities |
| Auxiliary Services |
| Bookstore (SacBookRac)27 |
| Child Development Center27 |
| Exercise Science/Wellness Center27 |
| Farm |
| Food Services |
| Convenience Stores27 |
| Performing Arts Center |
| Performing Arts Center Box Office |
| Planetarium |
| Wildlife Sanctuary |
| SECTION 7 — Programs of Study Leading to a Certificate |
| Programs of Study Leading to a Certificate |
| Listing by Certificates of Achievement |
| Listing by Skills Certificates |
| Certificates of Achievement |
| Skills Certificates |
| CECTION Q Drawneys of Study Londing to an Associate Degree |
| SECTION 8 — Programs of Study Leading to an Associate Degree |
| Programs of Study Leading to an Associate Degree |
| Multiple Degrees |
| Residency Requirement |
| Graduation Requirements for either an Associate in Arts Degree (A.A.) |
| or an Associate in Science Degree (A.S.) |
| Alphabetical Listing – Associate in Science Degree (A.S.) |
| Listing by Instructional Division |
| Alphabetical Listing – Associate in Arts Degree (A.A.) |
| Aiphabetical Listing – Associate III Arts begree (A.A.) |

| Contents | |
|----------|--|
|----------|--|

| General Education Requirements Philosophy Statement General Education Requirements for 2011-12 | 65 |
|---|--|
| Programs of Study Leading to an Associates Degree | 69-96 |
| SECTION 9 — Transferring to California Colleges and Universi Programs of Study Leading to Transfer University Transfer Major Options The California State University | |
| Transfer Admission Requirements General Education Requirements 2011-12 | |
| The University of California UC Minimum Admission Requirements Requirements for Student Transferring to UC Intersegmental General Education Transfer Curriculum (IGETC) 2011-12 After Transfer Partial Certification of (IGETC) | 103-105 103 103 104-105 106 |
| California Independent Colleges and Universities | 106 |
| SECTION 10 — Course Descriptions Definition of Terms Course Prefix Listing | |
| Course Descriptions | |
| Course Descriptions | 110-208 |
| Course Descriptions SECTION 11 — Continuing Education Continuing Education (Adult Education) Courses | 110-208 210-211 |
| Course Descriptions | 110-208 210-211 210 |
| Course Descriptions | 110-208 210-211 |
| Course Descriptions | 110-208 210-211 |
| Course Descriptions | 110-208 210-211 210 210 210 210 210 210 210 |
| Course Descriptions | 110-208 210-211 210 210 210 210 210 210 210 210 |
| Course Descriptions | 110-208 210-211 210 210 210 210 210 210 210 210 211 |
| Course Descriptions | 110-208 210-211 210 210 210 210 210 210 211 211 211 |
| Course Descriptions | |
| Course Descriptions | 110-208 210-211 210 210 210 210 210 210 211 211 211 211 |
| Course Descriptions | |
| Course Descriptions | |

| SECTION 12 — College Policies and Notices |
|---|
| College Policies |
| Alcohol and Other Drugs |
| Animals on Campus |
| Campus Disturbances |
| Campus Hours |
| Children on Campus |
| Classroom Visitors |
| Dress Regulation |
| Driving and Parking |
| Eye Protection |
| Academic Honesty |
| Cheating and Plagiarism |
| Non-Discrimination Policy245 |
| Sexual Harassment Policy |
| Standards of Conduct245 |
| Student Complaints/Grievance Process246 |
| Smoking on Campus |
| Academic Adjustments for Students with Disabilities |
| Reserve Officer Training Corps (ROTC) 246 |
| Notices |
| Equal Opportunity Statement |
| Notice of Students' Rights |
| Open Enrollment |
| Public Safety |
| Student Rights and Privacy Act247 |
| Student Right-to-Know Rates248 |
| SECTION 13 — The Faculty |
| Faculty and Academic Administrator Listings |
| Index |
| Campus Map |

| JULY 2011 | | | | | | |
|-----------|----|----|----|----|----|----|
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2011-12 College Calendar

Fall 2011

| July 4 | Independence Day Holiday (campus closed) |
|-------------------------|---|
| July 5 | International student admission application due for 2011 Fall Semester |
| July 19 | Registration begins for 2011 Fall Credit and Continuing Education classes |
| August 28 | Residency determination date |
| August 29 | Fall Semester begins |
| September 5 | Labor Day (campus closed) |
| September 9 | Last day to change residency for 2011 Fall Semester |
| September 9 | Last day to add a class |
| September 16 | Last day to withdraw without a "W" for 16-week classes |
| October 7 | Last day to petition for Fall Semester graduation |
| November 7 | International student application due for 2012 Winter Intersession |
| November 11 | Veteran's Day (campus closed) |
| November 18 | Registration begins for 2012 Winter Intersession |
| November 24 - 27 | Thanksgiving Recess (campus closed) |
| December 7 | International student application due for 2012 Spring Semester |
| December 7 - 11, 14-16 | "Book Buy Back" at SacBookRac |
| December 9 | Last day to petition for 2012 Winter Intersession graduation |
| December 12 - 18 | Final Exams |
| December 18 | 2011 Fall Semester ends |
| December 19 - January 6 | Winter Recess for students |

2011-12 College Calendar

Winter 2012

| January 1, 2011 January 9 January 16 | New Year's Holiday (campus closed) 2012 Winter Intersession begins Martin Luther King, Jr. Day (campus closed) |
|--|--|
| February 17 | Lincoln's Birthday (campus closed) |
| February 19 | 2012 Winter Intersession ends |
| February 20 | President's Day (campus closed) |

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| February 27 | 2012 Spring Semester begins |
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| March 30 | Cesar Chavez Day of Observance (campus closed) |

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2011-12 College Calendar

Spring 2012 (continued)

| May 28 | Memorial Day (campus closed) | | | | |
|------------------------------------|---|--|--|--|--|
| June 11 - 17 June 15 June 17 | Final Exams (<i>see</i> schedule in Spring <i>Schedule of Classes</i>) Commencement 2012 Spring Semester ends | | | | |
| Summer 201 | 2 | | | | |
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| June 25 | 2012 Summer Intersession begins | | | | |
| June 25 July 4 | 2012 Summer Intersession begins Independence Day (campus closed) | | | | |

COLLEGE DIRECTORY

The main College telephone number is (909) 594-5611.

For direct access to the offices listed below, dial (909) 274 + the 4-digit extension listed below.

| Academic Counselor for Student Athletes | Distance Learning | | Parking Office | |
|--|--|------|---|-----------------------|
| Academic Senate | *Earth Sciences & Astronomy | | Parking Services Cashier | |
| Accounting & Management | *Electronics & Computer Technology | | *Paralegal | |
| dvising | *English, Literature & Journalism | | Payroll | |
| dministrative Services | *ESL & Intercultural Programs | 4736 | Performing Arts Center Box Office | |
| dmissions & Records | Event Services | | Performing Arts Operations | |
| Aeronautics & Transportation | Exercise Science/Wellness Center | | Photo I.D. | |
| Affirmative Action | Express Stop | | *Physical Education Division | |
| *Agricultural Sciences | Extended Opportunity Programs & Serv. (EOPS) | | *Physical Therapy Aide | |
| Air Conditioning & Welding | Facilities Planning & Management | | *Physics, Engineering | |
| *Aircraft Maintenance & Manufacturing | Faculty Association | | Planetarium Shows | |
| Alumni Association | Farm Tours | | President & Board of Trustees | |
| *American Language | Financial Aid | | Printing Services | |
| *Architecture & Design | *Fine Arts | | Professional & Organizational Development | |
| Art Gallery | *Fire Technology | | *Psychology, Education | |
| *Arts Division | Fiscal Services | | *Psychiatric Technician | |
| ASPIRE Program | *Foreign Languages | | *Public Services | |
| Assessment Center | Foundation Office | | Purchasing | |
| Associated Students | Geography & Political Science | | Quick Stop | |
| Associated Students | Grants Office | | *Radiologic Technology | |
| Aurillary Services | Grounds Service Requests | | Re-Entry Center | |
| | *Health Careers Resource Center | | | |
| Basic Skills | | | *Registered Veterinary Technology | |
| Biological Sciences | Health Center | | Registration | |
| Bookstore (SacBookRac) | Help Desk (IT) | | Research & Institutional Effectiveness | |
| Bridge Program | High School Outreach | | *Respiratory Therapy | |
| Broadcast Services | *History & Art History | | Risk Management | |
| *Business Administration | *Histotechnology | | SacBookRac | |
| *Business Division | Honors Program | | Security (Campus) | |
| Bursar's Office | Horticulture Unit | | *Service Learning | |
| CalWORKs | *Humanities & Social Sciences Division | 4570 | Short Stop | |
| CARE | Human Resources | 4225 | *Sign Language | |
| Campus Café | Information Technology | | Small Business Development Center | (626) 337-210 |
| Campus Security | Instruction Office | | *Sociology, Philosophy | |
| Career Placement Services | *Language Learning Center | | Special Events | |
| Center of Excellence | *Learning Assistance Center | | Stadium Ticket Office | |
| *Chemistry | Learning Lab | | Student Center | |
| *Child Development | Library | | Student Life & Student Clubs | |
| Child Development Center | *Library & Learning Resources Division | | Student Services, Dean | |
| Commercial & Entertainment Arts | Lost & Found (Student Life) | | Student Services, V.P. Office | |
| Common Grounds Café | Maintenance & Operations | | *Teacher Prep Institute | |
| Communication | Marketing & Public Affairs Office | | Technical Services | |
| Continuing Education Division | *Mathematics, Computer Sciences | | *Technology & Health Division | |
| Continuing Education Division | | | Technology Education Resource Center | |
| 5 | Media Services | | | |
| Computer Information Systems | *Medical Services | | *Theater | |
| Consumer Science & Design Technologies | *Mental Health Technology | | Transfer Center | |
| Contract Education | Mountie Grill | | Tutorial Services | |
| Counseling | Mountie Stop | | Upward Bound | |
| ountinuing Education | *Music | | Veterans' Service Center | |
| SEA 262 | *Natural Sciences Division | | Warehouse | |
| Custodial Services | *Noncredit Programs | | Wellness Center | |
| [•] Dance | *Nursing | | Wildlife Sanctuary Tours | 479 |
| Disabled Student Programs & Services (DSP&S) | Online Learning Support Center | | * Instructional n | rograms and departmen |

$\mathsf{section}\, one$

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 <u>eight</u> 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 | Judy Chen Haggerty, Esq. Rosanne Bader |
|--|---|
| Clerk | Dr. Manuel Baca |
| Member | Fred Chyr |
| Member | Dr. David K. Hall |
| Student Trustee | Bruno Hernandez |
| College President & CEO | Dr. William Scroggins |

ADMINISTRATION

| Administrative Services | Ext. 4230 |
|--|-------------------|
| Vice President, Administrative Services | Michael Gregory |
| Associate Vice President, Fiscal Services | Linda Baldwir |
| Director, Accounting Services | Sid Young |
| Manager, Accounting | Shelly Zaht-Egber |
| Director, Bookstore and Operations | Suzanne Luetjer |
| Director, Bursar's Office | Sheree Culros |
| Manager, Custodial Services | Ken McAlpir |
| Director, Facilities Planning and Management | Gary Nelleser |
| Assistant Director, Facilities, Planning and Management | Bill Ashe |
| Manager, Facilities Support Services | |
| Project Manager, Facilities | Roger Sneed |
| Assistant Director, Fiscal Services | Rosa Royce |
| Director, Grounds and Transportation | Carol Bake |
| Manager, Payroll | Richard Lee |
| Director, Public Safety | |
| Assistant Director, Public Safety | • |
| Manager, Purchasing | |
| Director, Safety, Health Benefits, and Risk Management | Karen Saldana |
| Director, Technical Services | William Eastham |
| Human Resources | Ext. 4225 |
| Vice President, Human Resources | Annette Loria |
| Director, Human Resources | Terri Hamptor |
| Information and Educational Technology | Ext. 4357 |
| Chief Technology Officer | |
| Director, Enterprise Applications Systems | Vacan |
| Director, Academic Technology and Infrastructure | Dale Vickers |
| Assistant Director, Academic Technology and Infrastructure | Shanti Atashpoush |
| Manager, Data and Network Security | Jeff Holder |

President's Office Ext. 4121/4215 Executive Director, Mt. SAC Foundation Richard Morley Instruction Ext. 4200 Vice President, InstructionDr. Virginia Burley Dean, Arts DivisionDr. Susan Long Dean, Business Division Dr. Journana McGowan Associate Dean, Business Division Dean, Humanities and Social Sciences Division James Jenkins Dean, Physical Education Division Joeseph Jennum Interim Associate Dean, Physical Education Debbie Cavion Dean, Technology and Health DivisionDr. Sarah Daum Associate Dean, Technology and Health Division Jemma Blake-Judd Assistant Director, Adult Basic Education Omideh Sloan Director, Community and Career Education Paulo Madrigal Director, ESL and Intercultural ProgramsLiza Becker Director, Grants Adrienne Price Director, HonorsCarolyn Kuykendall Ext. 4505 **Student Services** Dean, Counseling Thomas Mauch Associate Dean, CounselingDr. Dvrell Foster Dean, Student Services Carolyn Keys Dean, Enrollment Management Dr. George Bradshaw Assistant Director, Admissions and Records Patricia Montoya Director, Upward Bound Dr. Juan Carlos Astorga Manager, CalWORKs/CARE Lorraine Williams

ADMINISTRATION

Ext. 4220

THE COLLEGE

ADMINISTRATION (continued)

| Director, Disabled Student Programs and Services (DSP&S) | Grace Hanson |
|---|----------------------------|
| Manager, Deaf and Hard of Hearing Services | Don Potter |
| Director, Extended Opportunity Programs and Services (EOPS) | Irene Herrera |
| Director, Financial Aid | Susan Jones |
| Director, Health Services | Sandra Samples |
| Director, Student Life | Dr. Maryann Tolano-Leveque |

INSTRUCTIONAL DIVISIONS

Arts Division

Dr. Susan Long, Dean

The Arts Division is composed of four educational departments: Fine Arts, Commercial and Entertainment Arts, Music, and Theater. The division sponsors numerous award-winning performance groups, houses an art gallery and includes Studio Arts, Digital Arts, and Radio and Television programs. The division sponsors several student drama and music productions in the Performing Arts Center each year and has performing groups that have established top national and international competition rankings. The Arts Division also oversees vocational degrees and certificates in Animation, Graphic Design, Radio, Television, Photography and Computer Graphics. For information relating to departments, programs, or events, contact the division office at ext. 5200.

Business Division

Ext. 4600

Ext. 5200

Dr. Joumana McGowan, Dean Richard Patterson, Associate Dean

The Business Division's educational programs and services are designed to respond to the changing trends, needs, and job requirements of the community, state, and national economy while ensuring a high quality education. The division offers twenty-three Associate in Science degrees, two Associate in Arts degrees, and over eighty certificates.

The Business Division's educational departments and their program areas are:

- Accounting and Management (Accounting, Business Management, and Business Office Communications)
- Business Administration (Paralegal Studies, Marketing & Sales, Real Estate, Economics, and Business Law)
- Computer Information Systems (Computer Basics, Database Management, Input Processing, CIS Management, Networking, Programming, Computer & Network Security, and Web Development)
- Child Development
- Consumer Science and Design Technologies (Family & Consumer Sciences, Fashion Merchandising & Design, Hospitality and Restaurant Management, Interior Design, and Nutrition & Food)

For more information about our programs and services, contact the division office at (909) 274-4600.

The economic and workforce development grant is for the Center of Excellence. For additional information, contact the Center of Excellence at ext. 6106.

The division also includes the services of the Child Development Center. For additional information, contact the Child Development Center at ext. 4920.

INSTRUCTIONAL DIVISIONS

Continuing Education Division

Donna Burns, Dean

The Continuing Education Division provides a range of programs, courses, and fee-based offerings serving noncredit students and community members. Noncredit programs include Adult Basic Education, English as a Second Language, Older Adults, Adults with Disabilities, Short-Term Vocational, and Citizenship. Student assessment, orientation, enrollment, advising, and counseling services are provided. The division also offers a variety of learning support labs such as the Language Learning Center, the Health Careers Resource Center, and the WIN program for student athletes. Fee-based programs include offerings for career training, personal enrichment, vehicle safety, and youth. The division also provides workplace training on a contract basis throughout the district.

Humanities and Social Sciences Division

Ext. 4570

Ext. 5659

James Jenkins, Dean

Associate Dean, Vacant

The Humanities and Social Sciences Division is composed of eight departments: American Language; Communication; English, Literature and Journalism; Foreign Languages; History and Art History; Geography and Political Science; Psychology and Education; Sign Language; Sociology; and 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, and the Teacher Preparation Institute. For additional information, contact the division at ext. 4570.

Library and Learning Resources Division

Meghan M. 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 offer courses and provide support services for all students at the College.

The College Library

Library Department offers courses in information resources and research methods as well as introduction to library research.

The Library offers students, faculty, and staff a wide variety of information resources for their research needs. Beyond traditional resources such as books, journalism, newspapers, videos, and career guides, researchers may also search numerous full-text databases and pre-evaluated Internet web sites. The library faculty teach library research techniques to classes by appointment and one-on-one at the reference desk at all the hours the library is open.

INSTRUCTIONAL DIVISIONS

Library and Learning Resources Division (Cont.)

Ext. 5659

Learning Assistance Center (LAC)

The LAC Department offers courses in pre-collegiate writing and mathematics, as well as both collegiate and degree-appropriate courses in reading, and study techniques. Tutor training courses are offered for prospective tutors.

Non-credit students can get individualized materials and instruction in reading comprehension, vocabulary, spelling, elementary math, algebra review, English grammar, and study techniques (note-taking, test preparation, and test-taking). Additionally, the LAC provides academic support through tutoring, an instructional computer lab, and testing services.

Distance Learning Program

Distance Learning (DL) courses (online and hybrid) are offered each term in various departments. The DL courses have the same course content, academic rigor, and registration process as regular courses. Some faculty may require on-campus meetings. Students are encouraged to check the schedule of classes each term for offerings and to visit *http://www.mtsac.edu/instruction/learning/distlearn/*

Natural Sciences Division

Ext. 4425

Larry L. Redinger, Dean Matthew Judd, Associate Dean

The Natural Sciences Division provides a wide variety of diverse educational opportunities and programs within its six departments: Agricultural Sciences, Biological Sciences, Chemistry, Earth Sciences and

Astronomy, Mathematics and Computer Science, and Physics and Engineering.

Agricultural Sciences provides numerous vocational programs leading to an associate degree or Certificate including programs in Animal Science, Equipment Technology, Registered Veterinary Technology, and Ornamental Horticulture. Biological Sciences offers a variety of courses for both majors and non-majors, including specific programs in Anatomy and Physiology, Anthropology, Histotechnology, Microbiology, Botany, and Zoology. Chemistry offers a full range of lower-division courses, including introductory, general, and organic chemistry. Earth Sciences and Astronomy provide course work in geology, oceanography, meteorology and astronomy. Mathematics and Computer Sciences provide courses for students at all levels of computational ability, from pre-algebra to calculus and differential equations. Physics and Engineering offers several course sequences in classical physics, as well as courses in Physical Science. The Engineering program provides a solid foundation of lower-division courses for those students preparing to transfer to a baccalaureate-level institution. For additional information, contact the division at ext. 4425.

INSTRUCTIONAL DIVISIONS

Physical Education Division

Ext. 4630

Joseph Jennum, Dean/Athletic Director Debbie Cavion, Interim Associate Dean

Mt. SAC's Physical Education Division has been a leader among community colleges for over 60 years. Our commitment to Physical Education, Athletics and Dance is exhibited by our dedication to the health and well being of our students and community. Our comprehensive class offerings, certificate programs, Fire and Law Testing (PAT)/Conditioning Program, Dance Productions, Athletic Programs and Athletic Special Events demonstrate this commitment. The renowned Dance Program here at Mt. SAC is enhanced by the award-winning faculty and studios/performance venues in the College's Performing Arts Center.

Mt. SAC is home to one the nation's largest and most successful community college athletic programs for men and women. The championship-winning athletic program offers 20 team sports and is an integral part of the College's overall educational offerings. Mt. SAC student-athletes excel on the field and in the classroom. Our "WIN" academic support program provides testing, tutoring and counseling services for our student-athletes and serves as the "model" academic support program for all community colleges. The renowned Dance Program at Mt. SAC is enhanced by award-winning faculty and studios/performance venues in the College's Performing Arts Center.

Mt. SAC's five renowned annual athletic special events—the Mt. SAC Relays, Mt. SAC Cross Country Invitational, Footlocker Western Regional Cross Country Championship, LA84 Foundation Youth Days Program and the International Pole Vault Camp—reach over 100,000 participants, coaches and spectators, generating millions of dollars into the local economy.

Technology and Health Division

Ext. 4750

Dr. Sarah Daum, Dean Jemma Blake-Judd, Associate Dean

The Technology and Health Division provides 31 certificates and 31 degrees in occupational and vocational programs in the areas of technology, public services, and health care. The programs offer a variety of Associate in Science degrees and certificates leading to job placement, transfer, and updating of skills. Programs offered in technology include Aeronautics, Air Conditioning and Refrigeration, Aircraft Maintenance, Architecture and Engineering Design Technology, Electronics Technology, Manufacturing Technology, Water Technology, and Welding. The Public Services programs include Fire Technology, Administration of Justice, Correctional Sciences, and Alcohol and Drug Counseling. Health Care Programs include Medical Services (EMT and Paramedic), Mental Health, Physician's Assistant Preparatory, Radiologic Technology, Respiratory Therapy, and Registered Nursing. Programs are driven by industry needs, and many are governed by state accrediting boards.

THE COLLEGE

$\mathsf{section}\, two$

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 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 top 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. Students wishing to change their residency must submit a Residency Reclassification form to the Admissions & Records Office prior to the deadline listed in the Schedule of Classes.

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 "nonresident".

 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. Nonresident: A "nonresident" 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, by 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.

* 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.

Residence Classification Appeal

Any student, following a final decision on residency classification by the Admissions and Records Office, may make a 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

http://mtsac.edu/students/counseling/special_admit.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. For more information, contact the Continuing Education Division at (909) 274-4220.

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.

Matriculation

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. 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. Students will need to request an evaluation upon submission of their graduation petition. 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 prior to their registration appointment.

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 catalog.

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.

Acceptance of International Coursework from Accredited Colleges and Universities outside the United States

Mt. San Antonio College may accept for equivalence, general education and courses that meet other local graduation requirements, that have been successfully completed at institutions of higher education outside the United States from international college and universities where the primary language of instruction is other than English, provided substantial documentation exists for the equivalences to be determined. The exceptions to this are courses to meet Area A: Communications in the English language and the Reading Competency requirement. These requirements must be fulfilled at a regionally accredited institution of higher education within the United States.

Students completing coursework at international higher education institutions in which English was the language of instruction may submit a petition for special review to the Admission and Records office to determine the equivalence of coursework in Area A and the Reading Competency. Mathematics course credit will only be granted for coursework completed at the level of Intermediate Algebra or higher.

Official Transcripts must be accompanied by evaluation documents provided an approved credential evaluation agency.

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
- Qualifying score from one of the following College approved tests:

1) TOEFL (minimum score of 133 on the computer-based test, or 450 on the paper-based test, or a score of 45 on the Internet-based test). Information regarding TOEFL may be obtained at **www.toefl.org**. If you are mailing your score directly, our institution code is "4494".

2) IELTS (overall band score of 4.5 or higher). Information regarding IELTS may be obtained at *www.ielts.org*.

3) Mt. SAC's AWE (Assessment of Written English) - Placement in AMLA 41W or higher. Information regarding the AWE may be obtained at **www.mtsac.edu/students/assessment**.

Matriculation

- 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 2011-12 school year are as follows:

- Summer 2011 First Monday of April
- Fall 2011 First Monday of June
- Winter 2012 First Monday of November
- Spring 2012 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, IELTS 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.

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 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.

Enrollment Fees and Expenses

Students are charged an enrollment fee, a Health Services Fee, and for some classes Materials Fees for each term at Mt. San Antonio College. In addition to these fees, non-resident students also pay tuition. 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 \$600 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.

Student Representation Fee

The Student Representation Fee is a mandatory fee that is collected during fall and spring registration for the purpose of providing Mt. SAC students the means to state their positions and viewpoints before city, county, district, and state government agencies. A student may choose <u>not</u> to pay the Student Representation Fee for political, religious, financial, or moral reasons. If a student chooses to opt-out of paying the fee for the stated reasons, then the student must: 1) visit the Student Life Office in Building 9C or http://as.mtsac.edu to get the opt-out form; 2) complete the form and; 3) return it to the Bursar's Office <u>prior</u> to paying the college fees.

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/Receipt. 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 to the College (e.g., returned check, unpaid enrollment fees, unpaid loan, equipment breakage, unpaid library fine, etc.). The hold 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 holds with the Student Life Office will not be allowed to transact College business until the hold is satisfied.

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. Students will be given a topic to write on and the writing sample will be read by at least two faculty members. Based on the faculty evaluation of the student's writing skills, they 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.

Chemistry Placement

The College utilizes the California Chemistry Diagnostic Test to determine student readiness for Chemistry 50. Students who pass the chemistry placement test will not be required to take chemistry prior to enrolling in Chemistry 50.

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, students 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;
- 2. 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.

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 an appointment for orientation immediately after filing an application and taking the necessary placement tests.

COUNSELING/ADVISEMENT

Counseling Center 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 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.

${\scriptstyle \mathsf{section}} three$

Academic Policies and Requirements



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 may 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 he or she determines that he or she can no longer attend the class. Failure to officially drop a class 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 or at an earlier date for intersession or short-term classes.

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.

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 the college, or are dropped by the professor after the course has met for 30 percent of the its total minutes (end of the fourth week for sixteen-week courses) 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>

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 highest 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.

Petitions for Exceptional Action

Student *Petitions for Exceptional Action* forms are available from the Counseling Office, Student Life, 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.

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

- A student may use that initial catalog year or any subsequent catalog until the student's petition for graduation, if the student has remained in continuous attendance.
- Continuous attendance is enrollment and attendance in a class (past the census date) in one of the immediate prior two semesters.
- In order to maintain catalog rights at Mt. SAC, based on the initial semester of enrollment, a student may:
 - 1. Attend another regionally accredited post-secondary institution.
 - 2. Maintain "continuous attendance" at a regionally accredited post-secondary institution while away from Mt.SAC.
 - 3. Not be absent from Mt. SAC for four or more regular terms (two years).

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 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.

Evaluative **Grade Point** Symbol Definition Value Excellent 4 Α В 3 Good 2 C Satisfactory D Passing 1 (less than satisfactory) F Failing 0 Passing (at least equivalent to a "C" grade. Units Pass awarded are not counted in determining the student's grade point average). NP 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.)

GRADING SCALE

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"'s in a class. After earning two "W"'s in a class, students wanting to repeat a class 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. 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 term. 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.

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. <u>If a</u> change is desired, the student can make the changes on their student portal or in person with a picture ID at the Admissions and Records <u>Office in the Student Services Center</u>. The grading option may not be changed at a later date. <u>Students enrolled in short-term courses of less</u> 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 at the time of registration.

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 or President's List, but such courses are considered in progress 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 55050 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:

Rules and Regulations

- 1. Credit by Examination will be granted only for those courses which have been so designated by the departments.
- 2. Any grade received for Credit by Examination will be entered on the student's permanent record with a notation of "Credit by Comprehensive Exam."

| | COLLEGE CREDIT FOR ADVA | NCED PLACE | MENT (AP) TESTS | |
|---|-------------------------------------|------------|-------------------------------|--------------------------|
| Exam | CSU GE Breadth 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) ⁸ | 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 ^{1,8,9} | 3 semester (Area B4) | 3 semester | 3 semester (Area 2A) | 4 quarter / 2.7 semester |
| Calculus BC ^{1, 8, 9} | 3 semester (Area B4) | 6 semester | 3 semester (Area 2A) | 8 quarter / 5.3 semester |
| Chemistry ² | 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 ^{1,8} | N/A | 3 semester | N/A | 2 quarter / 1.3 semester |
| Computer Science AB ^{1,8} | N/A | 6 semester | N/A | 4 quarter / 2.7 semester |
| 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 ⁸ | 3 semester (Area A2) | 6 semester | 3 semester (Area 1A) | 8 quarter / 5.3 semester |
| English — Literature & Composition ⁸ | 6 semester (Area A2 and C2) | 6 semester | 3 semester (Area 1A or 3B) | 8 quarter / 5.3 semester |
| Environmental Science ³ | 4 semester (Area B1 and B3) | 4 semester | 3 semester (Area 5A with lab) | 4 quarter / 2.7 semester |
| French Language ⁴ | 3 semester (Area C2) | 6 semester | 3 semester (Area 3B and 6A) | 8 quarter / 5.3 semester |
| French Literature ⁵ | 3 semester (Area C2) | 6 semester | 3 semester (Area 3B and 6A) | 8 quarter / 5.3 semester |
| German Language ⁴ | 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 |
| 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 and US 1) | 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 ⁶ | 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 ⁵ | 3 semester (Area C2) | 6 semester | 3 semester (Area 3B and 6A) | 4 quarter / 2.7 semester |
| Music Theory ^{5, 8, 10} | 3 semester (Area C1) | 6 semester | N/A | 8 quarter / 5.3 semester |
| Physics B ^{7,8} | 4 semester (Area B1 and B3) | 6 semester | 4 semester (Area 5A with lab) | 8 quarter / 5.3 semester |
| Physics C — Mechanics 7,8 | 4 semester (Area B1 and B3) | 4 semester | 3 semester (Area 5A with lab) | 4 quarter / 2.7 semester |
| Physics C — Magnetism ^{7,8} | 4 semester (Area B1 and B3) | 4 semester | 3 semester (Area 5A with lab) | 4 quarter / 2.7 semester |
| Psychology | 3 semester (Area D9) | 3 semester | 3 semester (Area 4I) | 4 quarter / 2.7 semester |
| Spanish Language ⁴ | 3 semester (Area C2) | 6 semester | 3 semester (Area 3B and 6A) | 8 quarter / 5.3 semester |
| Spanish Literature ⁴ | 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 |

1) If a student passes more than one AP exam in calculus or computer science, only one examination may be applied to the baccalaureate.

2) Students who pass AP Chemistry earn 6 units of credit. Tests prior to Fall 2009 may apply 4 units to area B1+B3. of GE Breadth. Tests after Fall of 2009 may apply 6 units to area B1+B3.

3) Students who pass AP Environmental Science earn 4 units of credit. Tests prior to Fall 2009 may apply to either B1+B3 or B2+B3 of GE Breadth. Fall of 09 or later, those credits may only apply to B1+B3.

4) Students who pass AP French Language, German Language, Spanish Language, and Spanish Literature earn 6 units of credit. Tests prior to Fall 2009 may apply 6 units to area (2 of GE Breadth. Tests after Fall 2009 may apply 3 units to area (2.

5) Students seeking certification in GE Breadth prior to transfer must have passed the test before Fall 2009.

6) Students seeking certification in GE Breadth prior to transfer must have passed the test before Fall 2010.

7) If a student passes more than one AP exam in physics, only six units of credit may be applied to the baccalaureate, and only four units of credit may be applied to a certification in GE Breadth. Students who pass AP Physics B earn 6 units of credit. Tests prior to Fall 2009 may apply 6 units to area B1+B3 of GE Breadth. Tests after Fall of 2009 may apply 4 units to area B1+B3.

- 8) At all UC Campuses, a maximum of 8 quarter units are allowed in each of the following areas: Art (Studio), English, Mathematics, Music and Physics. A maximum of 4 quarter units are allowed in Computer Science.
- 9) Students who take the Calculus BC examination and earn a subscore of 3 or higher on the Calculus AB portion will receive UC credit for the Calculus AB examination, even if they do not receive a score of 3 or higher on the BC examination

10) The UC will grant credit for the full Music Theory exam. Students who earn only a subscore will not receive exam credit.

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 |
|----------------------------------|--|
| 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 | 5 semester units toward Area C2 or D2 |
| History of Islamic World | 5 semester units toward Area C2 or D2 |
| Language A1 | |
| English | |
| French | |
| 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 |
| | |

3. A student may petition for Credit by Examination provided:

- a. The student has been registered at Mt. San Antonio College.
- 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 Center.

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 on page 13 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 postsecondary 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.

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.

Academic Policies and Requirements

- 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 Current License Holders

Mt. San Antonio College may grant units of credit toward an associate's degree to current license holders in the following areas: Emergency Medical Technology (Paramedics), Psychiatric Technology, and Radiologic Technology. The total number of units granted will be equal to the current total unit requirement for the equivalent program certificate. License holders must meet the college's residency requirements and complete an application to the college before the request for extra-institutional learning credits may be made. The application date will determine the catalog year.

The Department Chair from the appropriate program will validate the license and its currency. Admissions and Records will certify that the requirements have been met, grant the appropriate number of units, and apply extra-institutional learning credit toward the degree.

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.

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 at Mt. San Antonio College.

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 at Mt. San Antonio College.

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 Honors Program Director at Ext. 4528.

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).

- 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 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 (GPA) 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
- the cumulative percentage of all units in which the student has enrolled for which entries of "W","1" 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 summer session, 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. Probation
 - a. Academic Probation 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 Probation occurs at the end of that first semester in which the student has attempted at least 12 units and 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. Continued Probation
 - a. Continued Academic Probation occurs when the student in their second consecutive semester continues to have a cumulative grade point average below 2.0, or
 - b. Continued Progress Probation occurs when the student in their second consecutive semester 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 shall 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 by the stated deadline prior to the beginning of the following semester. 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. Requests must be made NO LATER THAN TWO WEEKS BEFORE the beginning of the semester. Requests for reinstatement will not be allowed thereafter. If approved, 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.

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).

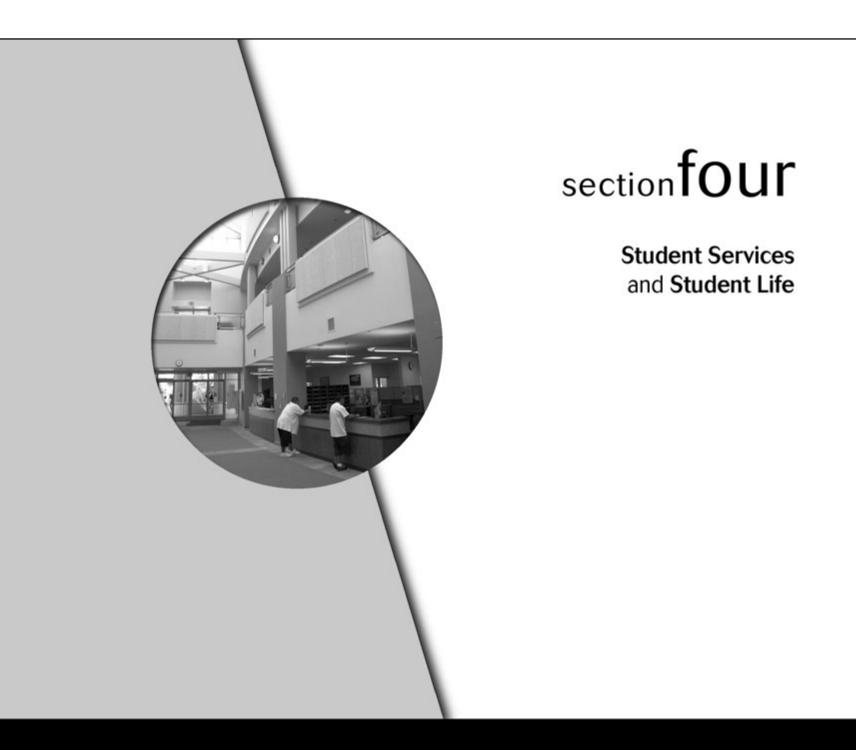
Academic Renewal

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 NP.
- 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 should consult with a counselor to file a 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. Unofficial/student copies of transcripts may be obtained at *http://my.mtsac.edu.*



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 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.
- 4. The Admissions and Records Office also provides computers located in the Student Services Building. These computers provide access to the student portal where students can print their unofficial transcripts, final grades, and copies of the Permit to Register. All services are also available at *my.mtsac.edu*. To use this service, students must have their Mt. SAC Student username.

The ASPIRE Program, Ext. 6396

The ASPIRE Program is an academic student success program designed to enhance success among African-Americans and other students enrolled at Mt. San Antonio College. The program strives to achieve equity among African-American and other students in academic success, access, retention, degree completion, and transfer.

The program aims to: develop a sense of community among African-American students, other students, faculty, staff and administrators; demonstrate culturally relevant connections between African-American students and the college; assist students in achieving academic success through progress monitoring, study groups, tutoring, counseling and advisement; and promote awareness of student services, and leadership opportunities. The ASPIRE Learning Community classes provides a combination of English, reading and/or counseling courses for students seeking a unique learning experience and provides a strong sense of community.

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.
- 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 and Reading 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. Student fees may be paid via the web at my.mtsac.edu or in person at the Bursar's Office, Building 9A. 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 get from Mt. SAC to the next step in their educational journey whether that is a great career or a great four-year university. We provide a variety of services, activities, events and resources to help students transfer to universities, solidify their career goals, sharpen their job acquisition skills, and acquire partand full-time employment.

Career Services include:

- Job and internship referrals
- Career fairs
- Career acquisition skills workshops
- Mock interview sessions
- 1-on-1 assistance with resume preparation, interviewing techniques, and general job search

Transfer Services include:

- Career and college guidebooks and university catalogs library
- Workshops on transfer topics
- University representative visits and appointments
- College fairs
- University tours
- Walk-in transfer advising

• Computers for career and transfer research, applications and more! 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) 274-4380.

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

The DSP&S office provides services to students who have professionally documented disabilities or medical conditions, and need special services to successfully attend classes at Mt. SAC. Students who suspect they might have a disability are welcome to apply for services and an eligibility determination will be made.

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 student must demonstrate the ability to benefit from higher education; and self-management skills (mobility, eating and using restrooms without assistance) must be adequate, unless a personal care attendant is utilized. The College does not provide personal care attendants.

Participation in DSP&S and all student disability-related information is confidential. Services offered are based on disability-related needs. Some of the services DSP&S offers are:

- Access to a computer lab with adaptive hardware and software
- Sign language interpreters
- Notetakers in the classroom
- Tram service on campus
- Priority registration
- Classroom testing accommodations
- Equipment loan
- Specialized counseling and advising
- Academic and career strategies classes
- Print material in alternate formats (i.e. Braille, e-text)

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 time limited 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 services that may be of assistance to them while attending Mt. San Antonio College. 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. 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

CARE (*Cooperative Agencies Resources for Education*) is a support program for EOPS students who are single head of household parents receiving TANF benefits — 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
- 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.

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. 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

Financial Aid

Student Services Center, Ext. 4450

Financial aid is available for students to assist with the costs associated with attending 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. Most financial aid programs were 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 financial aid programs offered.

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.gov*. For any questions or further information, contact the Financial Aid Office, **ext. 4450**.

STUDENT SERVICES AND STUDENT LIFE 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*) or other types of documents needed to verify or resolve conflicting data.

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:

- 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 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
- 3) 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. Only the enrollment fee is waived, and the student is responsible for paying the additional fees assessed. 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.

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.

Re-Entry Services Student Services Center, Ext. 4392

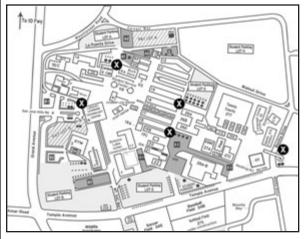
(See Extended Opportunity Programs and Services - EOPS)

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 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.

Veterans Services Center Student Services Center, Ext. 4520

The Veterans Services Center, located on the upper level of the Student Services Center, provides 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 all applicable regulations that pertain 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. All transcripts must be evaluated prior to the start of the students third semester, per the Veterans Administration. Also, a complete and signed educational plan must be submitted to the Veterans Service Center in order to receive benefits. Students should visit the Counseling Center for assistance in completing their educational plan. For step-by-step instructions in claiming and utilizing educational benefits at Mt. SAC, Veterans and eligible dependents should download the "Veterans Packet" and all required forms at www.mtsac.edu/students/veterans/.

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 the Veterans Services 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 Veterans Services Center.

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 for 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 postings, 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 an 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 (A.S.) 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 eight 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 also opportunities for students to 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 A.S. sponsored events and initiatives which support student clubs, programs, projects, and services throughout the year. The SacBookRac sells A.S. discount amusement park and movie tickets.

A.S. Student Activities Fee

The Student Activities Fee is an \$11 fee that is collected every Fall and Spring Semester to provide you with various programs and services on campus. Including book grants, scholarships, cultural programs, speakers, social Activities, and discounted amusement park and movie tickets. This fee is optional and refunds will NOT be issues after the second weeks of the semester. Waiving this fee will exclude you from taking advantage of the benefits listed above. Applications for waivers are available on your Student Portal under Financial Services or in the Student Life Office (Bldg. 9C) for the first two weeks of the semester.

Campus Clubs and Organizations Building 9C, Ext. 4525

There are many opportunities for students to join a variety of more than 50 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) consists 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.

$\mathsf{section}\, five$

Instruction and Learning Resources



Instruction and Learning Resources

INSTRUCTION

Distance Learning Program

What is Distance Learning?

It means taking classes that are conducted partially or entirely offcampus, "at a distance." Students and professors communicate with each other using a variety of technologies.

Distance Learning (DL) courses have the same content and academic rigor as regular courses; the only difference is the delivery method. Students should expect to spend as much time, sometimes more depending on the subject matter, reading, writing, and studying for DL courses as they would in regular courses.

In addition, students who manage their time well, log into DL courses regularly, and submit completed work on time, and meet courses expectation would do well in any course, but especially in DL courses. Communicating with the professor in a timely manner when there are questions or problems is also critical to student success.

Online Classes

Classes are delivered via the Internet, and students must attend a mandatory on-campus orientation meeting typically during the first week of classes. Students who cannot attend this meeting must contact their professors before the starting classes each term.

Hybrid Classes

These classes have both on-campus class meetings and online class hours off-campus. The number of on-campus meetings is determined by the professor.

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

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, Room 1561A

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.

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 (LAC) helps students succeed in college. The LAC offers instruction to review pre-collegiate skills in math, reading, and writing. Courses in study techniques are also available. Tutorial Services in the Learning Assistance Center provides free tutoring to all Mt. San Antonio College students on a drop-in basis, in study groups, and by appointment. Tutors assist students with their course work in most subject areas and with their study skills. The Learning Lab computers and audio-visual materials are available to all students in the community. Students can use the Learning Lab for research, word processing, multimedia assignments, online course work, and to supplement what they are learning in the classroom.

Bailey Smith, Director

Learning Assistance Center Ext. 5669

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 the thousands of books already in circulation, the Library is in the process of making hundreds of closed-captioned DVDs available for circulation as well, to allow students easier access to the Library's media collection. Beyond traditional resources such as books, journals, newspapers, videos, career guides, and college catalogs, researchers may also search numerous full-text article databases and access to nearly 25,000 full-text books. 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. 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 core art foundations to provide students with the skills and design concepts utilized in the visual communication industries.

<u>Job Market</u>: Advertising Design & Illustration focuses on the visual communication and design skills that are employed in graphic design, illustration, animation, multimedia and entertainment arts industries.

Aesthetics for Technology

Certificate

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

<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.

Instruction and Learning Resources COMMERCIAL AND ENTERTAINMENT ARTS DEPARTMENT (CONT.) **COMPUTER INFORMATION SYSTEMS DEPARTMENT (CONT.)** Computer Graphic Design/Photography A.S. Degree & Certificate Mt. SAC's Regional Information Systems Security Center (RISSC) has developed these new computer security courses to assist students with job-related and personal computer security demands: Prime Focus: 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, CISS 11 – Practical Computer Security and provides technical training in computer generated image production, manipulation, formatting and CISS 13 – Principles of Information Systems Security layout. The focus is on development, refinement and enhancement of visual design and technical skills. CISS 15 – Operating Systems Security CISS 21 – Networking Vulnerabilities Job Market: Free-Lance or Corporate Graphic Design; Marketing Photography; Advertising Design; CISS 23 – Network Analysis, Intrusion Detection/Prevention Systems Photojournalism; Commercial or Industrial Photography; Broadcast, Entertainment or Software Graphic CISS 25 – Network Security and Firewalls Design. (See Sections 7 and 8) CISS 27 – Defending Computer Systems Hands-On Photography A.S. Degree & Certificates CISS 29 – CNASM Service Learning These above security courses meet the Committee on National Security Systems (CNSS) National Training Prime Focus: 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 Standards for Information Systems Security Professionals, NSTISSI No. 4011. and a wide range of technical specialist in related disciplines. The program focuses on development, Job Market: Applications Developer/Programmer, Computer Consultant, Computer Marketing/Sales Rep, refinement and enhancement of visual imaging. Computer Network Technician, Network Specialist, Help Desk Support Person, Web Page Designer, Webmaster, Information Systems Specialist, Network Administrator, Microcomputer Trainer, Office Job Market: Freelance or Corporate Photographer, Studio or Location Photographer, Art/Gallery Photographer or Archivist, Photographic Developing/Printing Technician, Digital Photo Assistant, and Systems Manager, On-line Publisher, Programmer, Software Engineer, Software Testing/Quality Assurance Specialist, Tech Support/Customer Service Support. (See Sections 7 and 8) Digital Editing Technician (See Sections 7 and 8) **ELECTRONICS & COMPUTER TECHNOLOGY DEPARTMENT COMPUTER PROGRAMMING**, **COMPUTER SECURITY, AND COMPUTER SERVICING Electronics and Computer Engineering Technology** A.S. Degree & Certificate Mt. SAC offers many courses, certificates, and majors in the areas of computer programming, security, and **Prime Focus:** The Electronics Technology Programs prepare the student for a career as an electronic servicing. Each of these has a special emphasis. The brief descriptions that follow are intended to help technician in manufacturing and service-based electronic and computer companies. Several computerstudents select the correct computer specialization for their interests. Students planning to transfer should based courses are included in the program curricula. consult the catalog of the school to which they plan to transfer for specific lower division requirements. Job Market: Career opportunities include Service Technician, Production Technician, Engineering Departments offering programs in computer programming, security, and servicing are: Technician, Electronics Communication Technician, Computer Repair Technician, Networking Technician,

- Computer Information Systems Department
- Electronics and Computer Technology Department
- Mathematics, Computer Science Department

COMPUTER INFORMATION SYSTEMS DEPARTMENT

Computer Information Systems

A.S. Degrees & Certificates

Prime Focus: 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, relational database design in Microsoft Access, SQL Server, MySQL and Oracle. Other course offerings include systems analysis and design, telecommunications and networking, Windows, Mac OS, and Linux operating systems, information systems security, client/server side web programming and software development courses in: Visual Basic, Java, PHP, JavaScript, C++ and C#.

and Assembler. (See Sections 7 and 8)

MATHEMATICS DEPARTMENT

Computer Science/Mathematics

Prime Focus: 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.

Job Market: 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

section SiX

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, animation, advertising design, illustration, computer graphics and photography.

For information on Gallery Exhibition dates and times, contact the Art Gallery office at (909) 274-4328

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.

Child Development Center and Laboratory School Building 9E, Ext. 4920

Admission Policy

Early care and education services for children from 3 months 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..

State Preschool Program

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 a minimum daily fee for this program.

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.

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, metabolic testing, athletic performance testing, individual health/fitness programming and injury prevention/ rehabilitation. Activities are offered for all age groups.

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

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-ofthe-art theaters both regionally and internationally. 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. 4425

The planetarium offers instructional support for college classes, as well as a wide variety of public programs on a regular basis. For more information, please contact the Natural Science Division Office at Ext. 4425.

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 Seven

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:

- "Certificates of Achievement" 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

| Accounting | Children's Program Certificate: |
|---|---|
| Accounting – Computerized | General – Level III |
| Accounting – Financial Planning | Children's Programs Certificate: |
| Accounting – Managerial | Small Business Management |
| Administrative Assistant Level II | Children's Program Certificate: Teaching |
| Administrative Assistant Level III | Computer and Networking |
| Air Conditioning and Refrigeration | Technology Level I |
| Aircraft Powerplant Maintenance | Computer and Networking |
| Technology – Day | Technology Level II |
| Aircraft Powerplant Maintenance | Computer Graphics |
| Technology – Evening | Design/Photography 41 |
| Airframe Maintenance Technology – Day | Computer Systems Technology |
| Airframe Maintenance Technology – Evening 34 | Construction Inspection |
| Alcohol/Drug Counseling | Consumer Services 41 |
| Animation – 2-D Multimedia | Correctional Sciences 41 |
| Animation – 3-D and CG Gaming 35 | Digital Photographic Technician |
| Animation – Traditional 35 | Electronic Systems Technology – Level II |
| Architectural Technology – Level I | Electronics and Computer |
| Architectural Technology — Technology | Engineering Technology42 |
| Concentration Level II | Electronics Communications |
| Architectural Technology — Technology | Electronics Technology43 |
| Concentration Level III | Electronics: Industrial Systems |
| Architectural Technology — Design | Emergency Medical |
| Concentration Level II | Technician – Paramedic (EMT-P) |
| Architectural Technology — Design | Engineering Design Technology Level I |
| Concentration Level III | Engineering Design Technology Level II 45 |
| Building Automation 36 | Engineering Design Technology Level III |
| Business: Human Resource | Escrow Management 44 |
| Management – Level II | Family Child Care 45 |
| Business: Human Resource | Fashion Design Level I45 |
| Management – Level III | Fashion Design Level II45 |
| Business: International – Level II | Fashion Merchandising – Level I |
| Business: International – Level III | Fashion Merchandising – Level II |
| Business: Management – Level II | Fire Technology46 |
| Business: Management – Level III | Horse Ranch Management 46 |
| Business: Retail Management – Level II | Hospitality: Catering |
| Business: Retail Management – Level III | Hospitality: Hospitality |
| Business: Small Busines | Management – Level II |
| Management – Level II | Hospitality: Restaurant |
| Business: Small Business | Management – Level II |
| Management – Level III | Infant/Toddler Development |
| Children's Program Certificate: Administration 39 | Interior Design Level I – Merchandising |
| Children's Program Certificate: | Interior Design Level II – Design |
| General – Level II | Interior Design |
| | Level III – Professional Designation |

CERTIFICATES OF ACHIEVEMENT (continued)

| SKILLS CERTIFICATES | | | | |
|---|--|--|--|--|
| Skilles CEFAccounting – Bookkeeping54Accounting – Payroll54Administrative Assistant Level I54Athletic Trainer Aide I55Business: Human ResourceManagement – Level IManagement – Level I55Business: International – Level I55Business: Retail Management – Level I55Business: Retail Management – Level I55Business: Small BusinessManagement – Level IManagement – Level I55Children's ProgramCertificate: General – Level ICertificate: General – Level I55CIS Professional Certificate55in C++ Programming56CIS Professional Certificate56CIS Professional Certificate56CIS Professional Certificate56CIS Professional Certificate57CIS Professional Certificate56CIS Professional Certificate57CIS Professional Certificate in Database56CIS Professional Certificate57CIS Professional Certificate57CIS Professional Certificate in Networking57CIS Professional Certificate in Networking57CIS Professional Certificate in Oracle57CIS Professional Certificate in Oracle57CIS Professional Certificate in SOA56CIS Professional Certificate in SOA56CIS Professional Certificate57CIS Professional Certificate57CIS Professional Certificate57CIS Profession | ETIFICATES Educational Paraprofessional – Level I 58 Electronic Assembly and Fabrication 58 Electronic Systems Technology – Level I 58 Emergency Medical Technician – Level I 58 Fashion Design – Computer Aided 59 Fitness Specialist/Personal Trainer 59 Gallery Design/Operation and Art Profession 59 Hospitality: Food Services 59 Hospitality: Hospitality Management – Level I 59 Hospitality: Restaurant Management – Level I 59 Information and Operating Systems Security 60 Introduction to Computer Information Technology 60 LVN 30 Unit Option – Career Mobility Track 60 Machine Operator 61 61 Nutrition Program Assistant – Level I 61 Nutrition Program Assistant – Level II: 61 Weight Management Program Emphasis 61 Pilates Professional Teacher Training Phase I 62 M | | | |
| CIS Professional Certificate in Windows Operating | | | | |
| Coaching | | | | |
| Culinary Arts – Level I | | | | |
| Data Entry | | | | |

CERTIFICATES OF ACHIEVEMENT

Accounting

PROGRAMS OF STUDY LEADING TO A CERTIFICATE

Accounting and Management Department Certificate T0502

The Accounting Certificate incorporates various accounting courses that prepare the student for entrylevel 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 Required courses: Completion of the Accounting: Financial Planning coursework (21 Units) or Accounting: Managerial coursework (19 Units) as follows:

| BUSA 7 | Principles of Accounting | 5.0 | CSU,UC |
|-------------|---------------------------------|-------|--------|
| | - Financial | | |
| BUSA 8 | Principles of Accounting | 5.0 | CSU,UC |
| | - Managerial | | |
| BUSA 21 | Cost Accounting | 4.0 | |
| | <u>or</u> | | |
| BUSA 58 | Federal Income Tax Law | 3.0 | |
| BUSA 75 | Using Microcomputers | 1.0 | |
| | in Financial Accounting | | |
| | <u>or</u> | | |
| BUSA 81 | Work Experience in Accounting | 1.0 | |
| BUSA 76 | Using Microcomputers | 1.0 | |
| | in Managerial Accounting | | |
| | <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 | cours | e vou |
| | eviously taken. | | |
| | | | |
| | | | |

| | Certificat | LE LUJUJ | | | |
|----------|---|---|------------|--------|--|
| ns, | 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. | | | | |
| | | ments for the Certificate | | | |
| ıg: | Required of | ourses: n of the Accounting - Bookkeepin | a Cart | Gento | |
| <i>.</i> | | s) as follows: | g ceru | ncate | |
| J,UC | BUSA 7 | Principles of Accounting - Financi | al 5.0 | CSU.UC | |
| | 500.00 | or | | | |
| J,UC | BUSA 72 | Bookkeeping - Accounting | 5.0 | | |
| | BUSA 53 | Ten-Key Calculations | 2.0 | | |
| | | <u>or</u> | | | |
| | BUSA 81 | Work Experience in Accounting | 1.0 | | |
| | BUSO 5 | Business English | 3.0 | | |
| | | <u>or</u> | | | |
| | BUSO 25 | Business Communications | 3.0 | CSU | |
| | Plus the fo | llowing courses: | | | |
| | BUSA 75 | Using Microcomputers | 1.0 | | |
| | | in Financial Accounting | | | |
| | | <u>or</u> | | | |
| | BUSA 81 | Work Experience in Accounting | 1.0 | | |
| J | BUSA 76 | Using Microcomputers | 1.0 | | |
| · | | in Managerial Accounting | | | |
| | DUCA 01 | <u>or</u> | 1.0 | | |
| | BUSA 81 | Work Experience in Accounting Microcomputer Applications | 1.0 | CSU,UC | |
| | CISB 15 | Microcomputer Applications | 4.0 | C30,0C | |
| | PLUS | 1. 1. 6. | | | |
| J,UC | Select 3.5 l BUSA 81 | | 1.0 | | |
| .0 | CISB 11 | Work Experience in Accounting Computer Information Systems | 3.5 | CSU,UC | |
| u | CISB 13 | Microsoft Windows | 2.0 | ' | |
| - | CISB 13 | Microsoft Excel | 2.0 4.0 | 00 | |
| | CISW 11 | Internet Technologies | | CSU | |
| | COMP 11 | Internet Research for Business | 2.0 | | |
| | COMP 20 | Microsoft Word | 4.0 | | |
| | | Total Units | 18.5 | - 19.5 | |
| | | | | | |

Accounting - Computerized

Certificate L0503

Accounting and Management Department

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:

| BUSA 7 | Principles of Accounting | 5.0 | CSU,UC |
|---------|-------------------------------|------|--------|
| | - Financial | | |
| BUSA 8 | Principles of Accounting | 5.0 | CSU,UC |
| | - Managerial | | |
| BUSA 58 | Federal Income Tax Law | 3.0 | |
| BUSA 71 | Financial Planning | 3.0 | |
| BUSA 75 | Using Microcomputers | 1.0 | |
| | in Financial Accounting | | |
| | <u>or</u> | | |
| BUSA 81 | Work Experience in Accounting | 1.0 | |
| BUSA 76 | Using Microcomputers | 1.0 | |
| | in Managerial Accounting | | |
| | <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:

BUSA 7 Principles of Accounting 5.0 CSU,UC - Financial

BUSA 8 Principles of Accounting 5.0 CSU,UC - Managerial Cost Accounting BUSA 21 4.0 Using Microcomputers BUSA 75 1.0 in Financial Accounting <u>or</u> BUSA 81 Work Experience in Accounting 1.0 BUSA 76 Using Microcomputers 1.0 in Managerial Accounting or BUSA 81 Work Experience in Accounting 1.0 BUSO 25 **Business Communications** 3.0 CSU **Total Units** 19.0 Administrative Assistant - Level II Computer Information Systems Department Certificate L0594 The Level II Certificate prepares students for clerical positions where office organization and transcription skills are needed. **Requirements for the Certificate Required courses:** Completion of the Administrative Support - Level I

| coursework | coursework (13 units) as follows: | | | | |
|--------------|-----------------------------------|-------|--------|--|--|
| BUSO 5 | Business English | 3.0 | | | |
| CISI 11 | Computer Keyboarding | 3.0 | CSU | | |
| | <u>or</u> | | | | |
| CISI 11A | Computer Keyboarding | 1.5 | CSU | | |
| | and | | | | |
| CISI 11B | Computer Keyboarding | 1.5 | CSU | | |
| CISB 15 | Microcomputer Applications | 4.0 | CSU,UC | | |
| CISI 41 | Office Management Skills | 3.0 | | | |
| Plus the fol | lowing Level II coursework as fol | lows: | | | |
| BUSO 25 | Business Communications | 3.0 | CSU | | |
| CISI 12 | Intermediate Computer | 3.0 | | | |
| | Keyboarding | | | | |
| CISB 31 | Microsoft Word | | 4.0 | | |

Total Units

Administrative Assistant - Level III Computer Information Systems Department Certificate T0517

The Level III Certificate prepares students for administrative assistant positions where a variety of skills are needed.

Requirements for the Certificate *Required courses:*

| Completion of the Administrative Assistant - Level I | | | |
|--|------------------|-----|--|
| coursework (13 units) as follows: | | | |
| BUSO 5 | Business English | 3.0 | |

| BO20 2 | Business English | 3.0 | |
|----------------|---------------------------------|-----------|--------|
| CISB 15 | Microcomputer Applications | 4.0 | CSU,UC |
| CISI 11 | Computer Keyboarding | 3.0 | CSU |
| | <u>or</u> | | |
| CISI 11A | Computer Keyboarding | 1.5 | CSU |
| | and | | |
| CISI 11B | Computer Keyboarding | 1.5 | CSU |
| CISI 41 | Office Management Skills | 3.0 | |
| Required co | ourses: | | |
| Completion | of the Administrative Assistant | t - Level | |
| coursework | (13 units) as follows: | | |
| BUSO 25 | Business Communications | 3.0 | CSU |
| CISB 31 | Microsoft Word | | 3.0 |
| CISI 12 | Intermediate Computer | 4.0 | |
| | Keyboarding | | |
| Plus the fol | lowing courses: | | |
| Level III as f | follows: | | |
| BUSO 26 | Oral Communications | 3.0 | |
| | for Business | | |
| BUSO 96A | Business Vocabulary | 1.5 | |
| CISB 51 | Microsoft PowerPoint | 3.0 | CSU |
| CISB 61 | Desktop Publishing Software | 4.0 | CSU |
| CISW 15 | Web Site Development | 4.0 | CSU |
| | Total Units | 33.5 | - 35.5 |
| | | | |

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

This program is designed to prepare the student for employment in the broad field of air conditioning, heating, and refrigeration. It leads to occupations in design, manufacturing, operation, sales, distribution, installation, maintenance, and repair. Students desiring a Bachelor's Degree (transfer program) should consult with an advisor to discuss transferability of courses.

Requirements for the Certificate *Required courses:*

| AIRC 10 | Technical Mathematics | 2.0 |
|----------|-----------------------------------|-------|
| | in Air Conditioning and Refrigera | tion |
| AIRC 11 | Welding for Air Conditioning | 2.0 |
| | and Refrigeration | |
| AIRC 12 | Air Conditioning Codes | 3.0 |
| | and Standards | |
| AIRC 20 | Refrigeration Fundamentals | 4.0 |
| AIRC 25 | Electrical Fundamentals | 5.0 |
| | for Air Conditioning and Refriger | ation |
| AIRC 26 | Gas Heating Fundamentals | 2.0 |
| AIRC 30 | Heat Load Calculations | 4.0 |
| AIRC 31 | Commercial Electrical | 4.0 |
| | for Air Conditioning and Refriger | ation |
| AIRC 32A | Air Properties and Measurement | 1.5 |
| AIRC 34 | Advanced Mechanical | 4.0 |
| | Refrigeration | |
| | Total Units | 31.5 |
| | | |

Aircraft Powerplant Maintenance Technology - Day Aircraft Maintenance Technician & Manufacturing Technology Certificate T0982

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 in 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 (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.

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 65A | Aircraft Powerplant | 13.0 | CSU |
|-----------|--|------|-----|
| | Maintenance Technology | | |
| AIRM 65B | Aircraft Powerplant | 13.0 | |
| | Maintenance Technology | | |
| AIRM 70A | Aircraft Maintenance Electricity and Electronics | 3.0 | |
| 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 | |
| | Total Units | 41.0 | |
| Recomment | led Electives: | | |
| AIRM 74 | Aircraft Maintenance Technology | / | |
| | - Work Experience | | |
| AIRM 80 | Lab Studies | | |
| | in Aircraft Maintenance Technolo | w | |

- in Aircraft Maintenance Technology AIRM 81 Lab Studies in Aircraft Maintenance Technology
- EDT 12 Technical Engineering Drawing II
- ELEC 90 Survey of Electronics

PHYS 1

- MFG 70 Technical Mathematics
 - Manufacturing Applications Physics

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 in 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 (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.

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 | 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 95A | Aircraft Powerplant | 3.0 |
| | Maintenance Technology | |
| AIRM 95B | Aircraft Powerplant | 3.0 |
| | Maintenance Technology | |
| AIRM 96A | Aircraft Powerplant | 3.0 |
| | Maintenance Technology | |
| AIRM 96B | Aircraft Powerplant | 3.0 |
| | Maintenance Technology | |
| | | |

| AIRM 97A | Aircraft Powerplant | 3.0 | Degree (transfer program) should consult with an advisor | | | | |
|----------|------------------------------|-------|--|----------------------------------|----------|--|--|
| | Maintenance Technology | | to discuss | transferability of courses. | | | |
| AIRM 97B | Aircraft Powerplant | 3.0 | Requirem | ents for the Certificate | | | |
| | Maintenance Technology | | Required o | ourses: | | | |
| AIRM 98A | Aircraft Powerplant | 3.0 | AIRM 66A | Airframe Maintenance | 13.0 CSU | | |
| | Maintenance Technology | | | Technology | | | |
| AIRM 98B | Aircraft Powerplant | 3.0 | AIRM 66B | Airframe Maintenance | 13.0 | | |
| | Maintenance Technology | | | Technology | | | |
| | Total Units | 39.0 | AIRM 70A | Aircraft Maintenance Electricity | 3.0 | | |
| Recommen | ded Electives: | | | and Electronics | | | |
| AIRM 74 | Aircraft Maintenance Technol | oav | AIRM 70B | Aircraft Maintenance Electricity | 3.0 | | |
| | - Work Experience | - 57 | | and Electronics | | | |
| AIRM 80 | Lab Studies in Aircraft | | AIRM 71 | Aviation Maintenance Science | 6.0 | | |
| | Maintenance Technology | | AIRM 72 | Aviation Materials and Processe | s 1.5 | | |
| AIRM 81 | Lab Studies in Aircraft | | AIRM 73 | Aviation Welding | 1.5 | | |
| | Maintenance Technology | | | Total Units | 41.0 | | |
| EDT 12 | Technical Engineering Drawin | ng II | Recommen | nded Electives: | | | |
| ELEC 90 | Survey of Electronics | 5 | AIRM 74 | Aircraft Maintenance Technolog | у | | |
| MFG 70 | Technical Mathematics | | | - Work Experience | | | |
| | - Manufacturing Applications | 5 | AIRM 80 | Lab Studies in Aircraft | | | |
| PHYS 1 | Physics | | | Maintenance Technology | | | |
| | • | | - EDT 12 | 5, | | | |
| | | | | | | | |

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 in 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 (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 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

| to discuss | transferability of courses. | | |
|-------------|---------------------------------|------|-----|
| | ents for the Certificate | | |
| Required of | | | |
| AIRM 66A | Airframe Maintenance | 13.0 | CSU |
| | Technology | | |
| AIRM 66B | Airframe Maintenance | 13.0 | |
| | Technology | | |
| AIRM 70A | | 3.0 | |
| | and Electronics | | |
| AIRM 70B | | 3.0 | |
| | and Electronics | | |
| AIRM 71 | Aviation Maintenance Science | 6.0 | |
| AIRM 72 | Aviation Materials and Processe | | |
| AIRM 73 | Aviation Welding | 1.5 | |
| | Total Units | 41.0 | |
| Recommen | nded Electives: | | |
| AIRM 74 | Aircraft Maintenance Technolog | у | |
| | - Work Experience | | |
| AIRM 80 | Lab Studies in Aircraft | | |
| | Maintenance Technology | | |
| EDT 12 | Technical Engineering Drawing | | |
| ELEC 90 | Survey of Electronics | | |
| MFG 70 | Technical Mathematics | | |
| | - Manufacturing Applications | | |
| PHYS 1 | Physics | | |
| | | | |
| Airframe | e Maintenance Technology | y | |
| - Evening | g | | |
| | intenance Technician | | |
| | turing 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 in Science Degree or a Certificate. Excellent opportunities for employment exist in this area of training. Certain administrative, guality 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 66A and 66B are equivalent to evening program courses AIRM 90A, 90B, 91A, 91B, 92A, 92B, 93A, and 93B.

PHYS 1

Physics

| to take the Passing the Powerplant Maintenanc employmen Degree (tran | ompletion of this program enabl FAA examinations in Airframe an General Exam plus the Airframe Exam provides certification as ar e Technician which is required fo t in this field. Students desiring insfer program) should consult wi ransferability of courses. | id General. and/or n Aircraft r a Bachelor's | P C C C C C C C C C C C C C C C C C C C |
|---|---|--|--|
| Requireme | nts for the Certificate | | ŀ |
| Required co | | | A |
| AIRM 70A | Aircraft Maintenance Electricity | 3.0 | A |
| | and Electronics | | |
| AIRM 70B | Aircraft Maintenance Electricity | 3.0 | A |
| | and Electronics | | |
| AIRM 71 | Aviation Maintenance Science | 6.0 | A |
| AIRM 72 | Aviation Materials and Processes | | A |
| AIRM 73 | Aviation Welding | 1.5 | |
| AIRM 90A | Airframe Maintenance | 3.0 | A |
| | Technology | | ĥ |
| AIRM 90B | Airframe Maintenance | 3.0 | A |
| | Technology | | A |
| AIRM 91A | Airframe Maintenance | 3.0 | A |
| | Technology | | A |
| AIRM 91B | Airframe Maintenance | 3.0 | |
| | Technology | | ĥ |
| AIRM 92A | Airframe Maintenance | 3.0 | A |
| | Technology | | A |
| AIRM 92B | Airframe Maintenance | 3.0 | F |
| | Technology | | 1. |
| AIRM 93A | Airframe Maintenance | 3.0 | S |
| | Technology | | |
| AIRM 93B | Airframe Maintenance | 3.0 | 0 |
| | Technology | | |
| | Total Units | 39.0 | |
| Recomment | ded Electives: | | s |
| AIRM 74 | Aircraft Maintenance Technology | 1 | د |
| | - Work Experience | | S |
| AIRM 80 | Lab Studies in Aircraft | | P |
| | Maintenance Technology | | ľ |
| EDT 12 | Technical Engineering Drawing II | | P |
| ELEC 90 | Survey of Electronics | | P |
| MFG 70 | Technical Mathematics | | S |
| | - Manufacturing Applications | | S |
| DUNC 4 | | | ر ا |

Alcohol/Drug Counseling Public Services Department Certificate T2101

| | Jelection P | Incedure | | |
|---|----------------------------|--|------------|----------|
| | Selection P | | ·1.V | |
| | 200 13 | | 5.0 | C30,0C |
| | SOC 14 | Child Development | 3.0 3.0 | |
| | SOC 14 | Marriage and the Family | 3.0 3.0 | |
| | PSYC 1An | Abnormal Psychology | | CSU,UC |
| | PSYC 1AH | <u>or</u> Introduction to Psychology - Honors | 3.0 | csuuc |
| | PSYC 1A | Introduction to Psychology | 3.0 | CSU,UC |
| | SOC 1H | Sociology - Honors | | CSU,UC |
| | 506 111 | <u>Or</u> Secielary, Henere | 2.0 | (CLU LIC |
| | SOC 1 | <u>or</u> Sociology | 3.0 | CSU,UC |
| | CHLD 10H | Child Growth and Development - Honors | 3.0 | CSU,UC |
| | CHLD 10 | Child Growth and Development or | 3.0 | CSU,UC |
| | | 2) courses from: | | |
| | PLUS | | | |
| | AD 14 | Advanced Internship/Seminar | 4.0 | CSU |
| | AD 13 | Internship/Seminar | 4.0 | |
| | ' | eld work courses: | | |
| | | and Referral | | |
| | AD 11 | Techniques of Intervention | 3.0 | |
| | AD 10 | Client Record and Documentation | 1.5 | |
| | AD 9 | Family Counseling | 3.0 | |
| | AD 8 | Group Process and Leadership | 3.0 | |
| | Required sk | ill courses: | | |
| | AD 6 | Dual Diagnosis | 3.0 | CSU |
| | | Prevention and Education | | |
| | AD 5 | Chemical Dependency: | 1.5 | CSU |
| | AD 4 | Issues in Domestic Violence | 3.0 | |
| | | Intervention, Treatment and Reco | | 200 |
| | AD 3 | Chemical Dependency: | 3.0 | CSU |
| | AD Z | of Alcohol/Drugs | 5.0 | (30 |
| | AD 1 AD 2 | Alcohol/Drug Dependency Physiological Effects | 3.0 3.0 | CSU |
| | Required co AD 1 | | 2 0 | CSU |
| | - | nts for the Certificate | | |
| r | | the Technology and Health Divisi | on. | |
| | | r, a Certificate in Alcohol/Drug Stu | | will be |
| | Upon comp | letion of the required courses with | haq | rade of |
| | | | | |

All classes are open to all students who meet admission requirements and course prerequisites.

Special Instructions Restricted Electives must be taken prior to enrollment in Field Experience and can be taken in conjunction with core and skills courses.

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, students are encouraged to be able to speak, write and read English to complete classes successfully and to ensure safety for themselves and others.

Animation – 2D Multimedia **Commercial and Entertainment Arts** Certificate T0301

The Digital 2-D Multimedia certificate provides training for creative careers that integrate animation with video. audio, graphics and special effects for Websites, broadcast, film, presentation or mobile content.

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 101A Drawing - Gesture and Figure 3.0 CSU ANIM 104 Drawing Fundamentals 3.0 CSU

| ANIM 108 | Principles of Animation | 3.0 | CSU |
|-----------|---|-------|-----|
| ANIM 115 | Storyboarding | 3.0 | |
| ANIM 116 | Character Development | 1.5 | |
| ANIM 120 | Script Development for Animati | on3.0 | |
| ANIM 130 | Introduction to 3-D Computer Animation | 3.0 | |
| ANIM 131 | | 3.0 | |
| | Introduction to Gaming | | |
| ANIM 172 | Motion Graphics, Compositing and Visual Effects | 3.0 | |
| ANIM 175 | Web Animation with Flash | 3.0 | |
| ARTC 290 | Portfolio | 3.0 | |
| ARTC 100 | Graphic Design 1 | 3.0 | |
| | Total Units | 34.5 | |
| Recommend | ded Electives: | | |
| ANIM 109 | Advanced Principles of Animation | on | |
| ANIM 121 | Nature and History of Animation | n | |
| ANIM 137A | Work Experience in New Digital | Media | |
| ANIM 148 | Demo-Reel | | |
| ARTD 16 | Drawing: Perspective | | |
| ARTD 17A | Drawing: Life | | |
| ARTD 20 | Design: Two Dimensional | | |
| PHOT 10 | Basic Digital and Film Photogra | phy | |

Animation – 3D and CG Gaming **Commercial and Entertainment Arts**

Certificate T0302

The Animation – 3D and CG Gaming Certificate provides training in 3-D animation including character modeling, lighting, texture, environment and special effects that lead to creative careers in film, television and the video game industry.

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 101A | Drawing - Gesture and Figure | 3.0 | CSU |
|-----------|------------------------------|-----|-----|
| ANIM 104 | Drawing Fundamentals | 3.0 | CSU |
| ANIM 108 | Principles of Animation | 3.0 | CSU |
| ANIM 115 | Storyboarding | 3.0 | |
| ANIM 116 | Character Development | 1.5 | |
| ANIM 130 | Introduction to 3-D Computer | 3.0 | |
| | Animation | | |

| ANIM 131 | Introduction to Gaming | 3.0 | CSU |
|------------------|-------------------------------------|-------|-----|
| ANIM 132 | Modeling, Texture Mapping | 3.0 | |
| | and Lighting | | |
| ANIM 134 | Visual Effects I: Dynamics | 1.5 | |
| ANIM 135 | Visual Effects II: Particle Systems | 1.5 | |
| ANIM 136 | Animation Environment Layout | 3.0 | |
| ANIM 148 | Demo-Reel | 1.5 | |
| ANIM 172 | Motion Grading, Compositing | 3.0 | |
| | And Visual Effects | | |
| ARTC 100 | Graphic Design 1 | 3.0 | |
| PLUS one of | ^f the following courses: | | |
| ANIM 145 | Advanced 3-D Modeling | 3.0 (| or |
| ANIM 146 | 3-D Animation | 3.0 | |
| | Total Units | 39.0 | |
| Recommend | led Electives: | | |
| ANIM 107 | Figure in Motion | | |
| ANIM 109 | Advanced Principles of Animation | n | |
| ANIM 120 | Script Development for Animatio | n | |
| ANIM 121 | Nature and History of Animation | | |
| ANIM 137A | Work Experience in New Digital M | Andia | |

- ANIM 137A Work Experience in New Digital Media ANIM 175 Web Animation with Flash
- ARTC 66 Portfolio
- ARTD 17A Drawing: Life
- ARTD 20 Design: Two Dimensional
- PHOT 10 Basic Digital and Film 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 101A | 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 Animati | on 3.0 | |
|-----------|----------------------------------|--------|--------|
| ANIM 111A | Animal Drawing | 1.5 | |
| ANIM 115 | Storyboarding | 3.0 | |
| ANIM 116 | Character Development | 1.5 | |
| ANIM 117 | Animation Background Layout | 3.0 | CSU |
| ANIM 120 | Script Development for Animation | on 3.0 | |
| ANIM 175 | Web Animation with Flash | 3.0 | |
| ARTC 66 | Portfolio | 3.0 | |
| ARTC 100 | Graphic Design 1 | 3.0 | |
| 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 | 40.5 | |
| Recomment | ded Electives: | | |
| ANIM 107 | Figure in Motion | | |
| | | | |

| | · · j ·· · · · · · · · · · · · · · · · · · |
|-----------|---|
| ANIM 130 | Introduction to 3-D Computer Animation |
| ANIM 121 | Nature and History of Animation |
| ANIM 131 | Introduction to Gaming |
| ANIM 137A | Work Experience in New Digital Media |
| ANIM 172 | Motion Graphics, Compositing and Visual Effects |
| ARTS 22 | Design: Three-Dimensional |
| PHOT 10 | Basic Digital and Film 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 entry-level employment as an office assistant.

Requirements for the Certificate Reauired courses:

| ARCH 10 | Design I - Elements of Design | 3.0 | CSU |
|-------------|---------------------------------|------|--------|
| ARCH 11 | Architectural Drawing | 3.0 | CSU,UC |
| ARCH 12 | Architectural Materials | 3.0 | CSU |
| | and Specifications | | |
| ARCH 16 | Basic CAD and Computer | 4.0 | CSU,UC |
| | Application | | |
| Plus the fo | llowing courses: | | |
| ENGL 68 | Preparation for College Writing | 4.0 | |
| MATH 51 | Elementary Algebra | 4.0 | |
| | Total Units | 21.0 | |

| Architectural Technology - Technology Concentration Level II Architecture and Engineering Design Department Certificate T0203 | | | - Techr Architec Design [| ectural Technology nology Concentration ture and Engineering Department te T0204 | Level III | III - Design Concentration Level II - Design Conce | | - | vel III | | |
|--|--|---------------------------|--|---|--|--|--|---|--|--|---|
| This Level II Technology Concentration Certificate focuses upon the preparation of architectural construction documents, with emphasis on computer-aided design (CAD) applications. Regulatory requirements and an overview of construction practices are also included. The student will prepare a portfolio of CAD documentation, | | | additional profession Concentrat employme | III Technology Concentration Certii expertise in advanced CAD applic al practice. The Level III Technolog tion Certificate prepares students ent as an intermediate CAD operat a specialist. | ations and ly for | studio desi model-ma student wi assignmen | II Design Concentration Certificat ign, drawing, and presentation sl king, sketching and computer ap ill prepare a portfolio of creative its. The Level II Design Concentra tudents for employment as a des | kills, including plications. The design tion Certificate | additional professior Certificate intermedi | III Design Concentration Certific expertise in portfolio developm al practice. The Level III Design prepares students for employm ate design assistant or presentat | ent and Concentration ent as an tion specialist. |
| including 2 Concentrati | -D and 3-D projections. The Leve on Certificate prepares students | el II Technology for | Require | ments for the Certificate | | or present | ation specialist. ments for the Certificate | - | Required | | |
| employmer specialist. | nt as a beginning CAD draftsmar | n or production | Completio | n of the Architectural Technology k (43) units. | Level I and II | Required o | | | Concentro | tion coursework (42) units. bllowing courses: | ,, |
| | nents for the Certificate | | PLUS | | | | k (21) units. | | ARCH 27 | Design III - Environmental Des | sign 3.0 CSU, UC |
| Required co | ourses: 1 of the Architectural Technology | lovall | ARCH 14 | Building and Zoning Codes | 3.0 | PLUS | A 110 A 110 A 41 | | ARCH 29 | Design IV - Advanced Project | 3.0 CSU |
| | k (21) units. | Leveri | ARCH 15 | Architectural Working | 3.0 CSU | ARCH 13 | Architectural Illustration | 3.0 CSU,UC | PLUS | | |
| PLUS | (<i>21)</i> units. | | ADCII 10 | Drawings - I | 2.0 | ARCH 21 ARCH 23 | Design II - Architectural Design Architectural Presentations | 3.0 CSU 3.0 CSU | | e (1) course from: | |
| ARCH 14 | Building and Zoning Codes | 3.0 | ARCH 18 | Architectural Computer Aided Design Elements | 3.0 | ARCH 23 ARCH 31 | World Architecture I | 3.0 CSU,UC | ARCH 14 | Building and Zoning Codes | 3.0 |
| ARCH 15 | Architectural Working Drawings - I | 3.0 CSU | ARCH 26 | Architectural CAD Working | 3.0 | ARCH 32 | World Architecture II | 3.0 CSU | ARCH 15 | Architectural Working Drawings - I | 3.0 CSU |
| ARCH 18 | Architectural Computer | 3.0 | EDT 20 | Drawings Technical Descriptive Geometry | 3.0 (21) | PLUS | (1) | | ARCH 18 | Architectural Computer Aided | 3.0 |
| | Aided Design Elements | | INSP 70 | Elements of Construction | 3.0 CSU | ARCH 15 | (1) course from: Architectural Working | 3.0 CSU | | Design Elements | |
| ARCH 26 | Architectural CAD Working | 3.0 | | ollowing courses: | 5.0 050 | Anch 15 | Drawings - I | 5.0 (50 | ARCH 26 | Architectural CAD Working Drawings | 3.0 |
| | Drawings | | ARCH 28 | Architectural CAD | 3.0 CSU | | <u>or</u> | | ARCH 28 | Architectural CAD | 3.0 CSU |
| EDT 20 | Technical Descriptive Geometry | | Anch 20 | Illustration and Animation | 5.0 (50 | ARCH 18 | Architectural Computer | 3.0 | Anch 20 | Illustration and Animation | 5.0 (50 |
| INSP 70 | Elements of Construction | 3.0 CSU | ARCH 29 | Design IV - Advanced Project | 3.0 CSU | | Aided Design Elements | | ARCH 89 | Architectural Work Experience | 1.0 - 2.0 |
| PLUS | | | PLUS | besign in harancearrojeer | 5.0 050 | PLUS | 5 | | INSP 70 | Elements of Construction | 3.0 CSU |
| | (1) course from: | | Coloctono | (1) course from: | | | ee (3) units from: | | | Total Units | 51.0 |
| PHYS 1 | Physics | 4.0 CSU,U | ARCH 13 | Architectural Illustration | 3.0 CSU,UC | ARTD 15A | 5 5 5 | 3.0 CSU,UC | | | |
| PHYS 2AG | <u>or</u> General Physics Total Units | 4.0 CSU,U0 43.0 | ADCU 21 | Design II - Architectural Design Architectural Presentations World Architecture I World Architecture II | 3.0 CSU 3.0 CSU 3.0 CSU,UC 3.0 CSU,UC | ARTD 20 ARTS 22 | Design:Two Dimensional Design:Three-Dimensional Total Units | 3.0 CSU,UC3.0 CSU,UC42.0 | Air Cone and Wat | n g Automation ditioning, Welding :er Technologies te T0309 | |
| | | | ARCH 89 EDT 26 INSP 71 | Architectural Work Experience Civil Engineering Technology and CAD Construction Estimating | 1.0 – 2.0 3.0 CSU 3.0 CSU | | | | in the field and Green Bachelor's | am is designed to prepare the stu Is of Building Automation, Energy Building Technologies. Students o Degree (transfer program) should discuss transferability of courses. | Management, desiring a |
| | | | | Total Units | 50.0 - 52.0 | | | | Require Required | ments for the Certificate | |
| | | | | | | | | | AIRC20 AIRC25 | Refrigeration Fundamentals Electrical Fundamentals for A/C & Refrigeration | 3.0 4.0 |

| AIRC31 | Commercial Electrical for A/C & Refrigeration | 4.0 |
|--------|--|--------|
| AIRC34 | Advanced Mechanical Refrigeration | 4.0 |
| AIRC61 | Building Automation Fundamentals | 2.5 |
| AIRC63 | Building Control Networks | 3.0 |
| AIRC65 | Building Automation Network & Programming | 3.0 |
| AIRC67 | Energy Management | 4.0 |
| CISN11 | Telecommunications/Networking | ng 4.0 |
| CISW41 | XML Secure Programming | 3.0 |
| CISW49 | Service Oriented Architecture Concepts & Practice | 3.0 |
| | Total Units | 37.5 |

Business: Human Resource Management - Level II Accounting and Management Department Certificate L0534

This certificate builds upon the Level I Certificate to provide students with specific knowledge of human resource management functions. HR law, compensations systems, and an understanding of human motivation provide the student with a solid foundation from which to build a career in human resources. Completion of the Business: Human Resource Management - Level I coursework (9 Units).

Requirements for the Certificate Required courses: Level I as follows: BUSM 20 Principles of Business 3.0 CSU,UC 3.0 CSU BUSM 61 **Business Organization** and Management BUSM 62 Human Resource Management 3.0 Plus the following courses: Level II as follows: ANTH 22 General Cultural Anthropology 3.0 CSU,UC Human Relations in Business 3.0 CSU BUSM 60 BUSO 25 **Business Communications** 3.0 CSU **Total Units** 18.0

Special Information:

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

| Business: Human Resource Management - Level III Accounting and Management Department Certificate L0535 | | | Business: International - Level II Accounting and Management Department Certificate L0597 In the Business: International - Level II Certificate student | | | | | |
|---|-------------------------------------|----------|--|--|---|---------|----------|--|
| Students completing the Level III Certificate will have knowledge and practical experience in business communications and computer use. Successful completion of this certificate prepares students to handle the increasing diversity and complexity of modern human resource management. Completing the advanced certificate will help those working in the human resource field to prepare for professional certification by the Human Resource Certification Institute. | | | 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. Students active in the workforce will acquire new skills that are highly desirable in a fast-paced dynamic global environment, with an emphasis on the small business perspective. Requirements for the Certificate | | | | | |
| Reauire | ments for the Certificate | | | Required co | | | | |
| Required c | ourses: | | | | n of the Business: International | - Level | 1 | |
| | n of Human Resource Manageme | ent - Le | vel I and | courseworl | k (9 units) as follows: | | | |
| | rsework (18 Units) as follows: | | | BUSM 20 | Principles of Business | | CSU,U | |
| <i>Level I as f</i> BUSM 20 | Principles of Business | | CSU,UC | BUSM 51 | Principles of International Business | 3.0 | CSU | |
| BUSM 61 | Business Organization | 3.0 | CSU | BUSS 36 | Principles of Marketing | 3.0 | CSU | |
| | and Management | | | Plus the fo | llowing courses: | | | |
| BUSM 62 | Human Resource Management | 3.0 | | Level II as follows: | | | | |
| Required o | | | | BUSM 61 | Business Organization | 3.0 | CSU | |
| Level II as i | | | | | and Management | | | |
| ANTH 22 | General Cultural Anthropology | | CSU,UC | BUSM 66 | Small Business Management | 3.0 | CSU | |
| BUSM 60 | Human Relations in Business | | CSU | PLUS | | | | |
| BUSO 25 | Business Communications | 3.0 | CSU | Select one | (1) course from: | | | |
| | llowing courses: | | | BUSS 70 International Marketing Concepts 3.0 | | | | |
| Level III as | | | | CHIN 1 | Beginning Chinese | 4.0 | CSU,U | |
| BUSA 70 | Payroll and Tax Accounting | 3.0 | | FRCH 1 | Elementary French | 4.0 | CSU,U | |
| CISB 15 | Microcomputer Applications | | CSU,UC | GERM 1 | Elementary German | 4.0 | CSU,U | |
| | Total Units | 25.0 | | ITAL 1 | Elementary Italian | 4.0 | CSU,UO | |
| Special Inf | | | | JAPN 1 | Elementary Japanese | 4.0 | CSU,U | |
| | ceiving financial aid need to decla | | | SPAN 1 | Elementary Spanish | 4.0 | CSU,U | |
| Certificate a | as their goal to meet Financial Aid | require | ments. | | Total Units | 18.0 | - 19.0 | |
| | | | | | eceiving financial aid need to de te as their goal to meet Financi | | 1e Level | |

Business: International - Level III Accounting and Management Department Certificate L0528

| | | | certificat | | | | | |
|--|---------|---------------|--|--|------|--------|--|--|
| el II Certificate student to managing the n international n theoretical ed to managing and Students active in the at are highly desirable ironment, with an | | | Upon completion of the Business: International Level III Certificate, students will have acquired the specific skills needed to successfully complete international business transactions. Students will gain a practical, hands-on perspective of how to compete in a global system of conflicting laws, regulations, and requirements. Completion of the Business: International - Level I and II coursework (18 Units) as follows: | | | | | |
| rspective | | i un | | | | | | |
| ficate | | | Required of | ments for the Certificate | | | | |
| incure | | | Level I as f | | | | | |
| ational - | Level | 1 | BUSM 20 | Principles of Business | 3.0 | CSU,UC | | |
| | 3.0 | CSU,UC | BUSM 51 | Principles of International Business | | CSU | | |
| nal | 3.0 | CSU | BUSS 36 | Principles of Marketing | 3.0 | CSU | | |
| | | | Required c | | | | | |
| | 3.0 | CSU | Level II as t | | | | | |
| | | | BUSM 61 | Business Organization | 3.0 | CSU | | |
| | | | | and Management | | | | |
| | 3.0 | CSU | BUSM 66 | Small Business Management | 3.0 | CSU | | |
| ement | 3.0 | CSU | PLUS | | | | | |
| incirc | 5.0 | 650 | | (1) course from: | | | | |
| | | | BUSS 70 | International Marketing Concer | | | | |
| g Concep | tc 2 0 | | CHIN 1 | Beginning Chinese | | CSU,UC | | |
| y concep | 4.0 | CSU,UC | FRCH 1 | Elementary French | | CSU,UC | | |
| | | CSU,UC | GERM 1 | Elementary German | | CSU,UC | | |
| | | CSU,UC | ITAL 1 | Elementary Italian | | CSU,UC | | |
| | | CSU,UC | JAPN 1 | Elementary Japanese | | CSU,UC | | |
| | | CSU,UC | SPAN 1 | Elementary Spanish | 4.0 | CSU,UC | | |
| | | CSU,UC | PLUS | | | | | |
| | | - 19.0 | | required courses: | | | | |
| | 10.0 | - 19.0 | Level III as | | | | | |
| d to doe | lara th | | BUSL 20 | International Business Law | 3.0 | | | |
| ed to dec Financial | | ie Levei | BUSM 50 | World Culture: | 3.0 | CSU | | |
| | Alu | | | A Business Perspective | | | | |
| | | | | <u>or</u> | | | | |
| | | | ANTH 22 | General Cultural Anthropology | | CSU,UC | | |
| | | | BUSM 52 | Principles of Exporting and Importing | 3.0 | CSU | | |
| | | | | Total Units | 27.0 | - 28.0 | | |
| | | | | | 27.0 | 20.0 | | |
| | | | | | | | | |
| | | | | | | | | |

| Recommended Electives |
|-----------------------|
|-----------------------|

PROGRAMS OF STUDY LEADING TO A CERTIFICATE

BUSM 81 Work Experience in Business BUSM 85 Special Issues in Business BUSS 85 Special Issues in Marketing **Special Information:**

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

Business: Management - Level II Accounting and Management Department Certificate L0586

This certificate builds upon the Level I 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 successes. Business presentations, business planning, team building, conflict resolution, and computer use are core skills developed in this certificate. **Requirements for the Certificate**

Required courses: Completion of Business: Management Level I coursework (9 units) as follows: BUSM 20 Principles of Business DUCH (1

| BUSM 61 | Business Organization | 3.0 | CSU |
|----------------|-----------------------------|------|--------|
| | and Management | | |
| BUSS 36 | Principles of Marketing | 3.0 | CSU |
| Plus the fol | llowing courses: | | |
| Level II as fo | ollows: | | |
| BUSM 60 | Human Relations in Business | 3.0 | CSU |
| BUSM 62 | Human Resource Management | 3.0 | |
| CISB 15 | Microcomputer Applications | 4.0 | CSU,UC |
| | Total Units | 19.0 | |

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 III 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

| | ties and provide students with a s | | | FASH 6 | | | |
|---|--|------------|--------------|-------------------|--|--|--|
| | n upon which to build a managen | nent o | areer. | | | | |
| Require Required of | ments for the Certificate | | | CISB 1 Plus tl | | | |
| | Completion of the Business: Management - Level I and | | | | | | |
| | ursework (18.5 Units) as follows: | | | Level I BUSA 1 | | | |
| Level I as f | follows: | | | BUSA | | | |
| BUSM 20 | Principles of Business | 3.0 | CSU,UC | DODIN | | | |
| BUSM 61 | Business Organization | 3.0 | CSU | BUSM | | | |
| | and Management | | | BUSS 3 | | | |
| BUSS 36 | Principles of Marketing | 3.0 | CSU | | | | |
| Required | courses: | | | Specia | | | |
| Level II as | follows: | | | Studen | | | |
| BUSM 60 | Human Relations in Business | 3.0 | CSU | Certific | | | |
| BUSM 62 | Human Resource Management | 3.0 | | | | | |
| CISB 15 | Microcomputer Applications | 4.0 | CSU,UC | Busi | | | |
| Plus the f | ollowing courses: | | | - Lev | | | |
| Level III as | | | | Acco | | | |
| BUSA 7 | Principles of Accounting | 5.0 | CSU,UC | Certif | | | |
| DUCMAG | - Financial | | | Introdu | | | |
| BUSM 10 | Principles of Continuous | 3.0 | | advan | | | |
| DUCM 51 | Quality Improvement | 2.0 | CCU | practic | | | |
| BUSM 51 | Principles of International Business | 3.0 | CSU | leader | | | |
| | Total Units | 30.0 | | this ce | | | |
| c | | 20.0 | | diversi | | | |
| | formation: | | | Require Require | | | |
| | eceiving financial aid need to declar | | | Compl | | | |
| Certificate | as their goal to meet Financial Aid | requir | ements. | course | | | |
| Dusing | ac Dotail Managama | | | BUSO 2 | | | |
| - Level | ess: Retail Manageme | nu | | BUSS 5 | | | |
| | II ing and Management Depa | rtm | nt | | | | |
| | te L0591 | | | | | | |
| | ediate certificate builds upon the Lev | ا ا | rtificato | FASH 6 | | | |
| | tudents to the various functions of m | | | CISB 1 | | | |
| retail positions. Fundamentals of business organization, retail | | | | | | | |
| marketing and staffing provides the student a solid foundation | | | | | | | |
| from which | to build a career in retail managem | ent. | | Compl | | | |
| Require | ments for the Certificate | | | | | | |
| Required of | | | | BUSA 1 BUSM | | | |
| | n of the Retail Management - Lev | el I | | DO2W | | | |
| | 'k (9.5 Units) as follows: | 2 0 | <u>(</u> (1) | BUSM | | | |
| BUSO 25 BUSS 50 | Business Communications | 3.0 3.0 | CSU | BUSS 3 | | | |
| 00 200 | Retail Store Management | 5.0 | | 0033 | | | |
| | and Merchandising <i>or</i> | | | | | | |
| | <u>01</u> | | | | | | |
| | | | | | | | |

| | FASH 62 | Retail Store Management | 3.0 | CSU | | llowing courses: | | | |
|---|---|--------------------------------------|--------|---|--|-------------------------------------|----------------|--|--|
| | CICD 45 | and Merchandising | | | Level III as | | | | |
| | CISB 15 | Microcomputer Applications | 4.0 | CSU,UC | BUSA 7 | Principles of Accounting | 5.0 CSU,UC | | |
| | | llowing courses: | | | | - Financial | 2.0. ((1) | | |
| | Level II as t | follows: | | | BUSM 60 | Human Relations in Business | 3.0 CSU | | |
| | BUSA 11 | Fundamentals of Accounting | 3.0 | | BUSO 26 | Oral Communications for Busine | | | |
| | BUSM 61 | Business Organization | 3.0 | CSU | | Total Units | 33.0 | | |
| • | | and Management | | | Special Inf | ormation: | | | |
| | BUSM 62 | Human Resource Management | | | | ceiving financial aid need to decla | | | |
| | BUSS 36 | Principles of Marketing | 3.0 | CSU | Certificate a | s their goal to meet Financial Aid | requirements. | | |
| | | Total Units | 22.0 | | | | | | |
| | Special Inf | ormation: | | | Busine | ss: Small Business | | | |
| | Students re | ceiving financial aid need to decla | re the | Level III | Manag | ement - Level II | | | |
| | | as their goal to meet Financial Aid | | | Accounti | ng and Management Depa | artment | | |
| | | - | | | Certificat | e L0588 | | | |
| • | Busine | ss: Retail Manageme | nt | | The Busine | ss: Small Business Management | - Level II | | |
| | - Level | | - | | Certificate | provides students with practical | small business | | |
| | Accounti | ng and Management Depa | rtme | ent | | certificate focuses on issues such | | | |
| Certificate T0521 | | | | and leadership skills that lead to | | | | | |
| | Introductor | ry statement: Students completin | a the | | productivity through the development of people. | | | | |
| | | evel III Certificate will have know | | e and | Completion of this certificate will lead to new career opportunities for those currently employed in the small | | | | |
| | practical experience in business communication, | | | husiness arena | | | | | |
| | | and financial controls. Successful | | | | | | | |
| this certificate prepares students to handle the increasing | | | | Requirements for the Certificate Required courses: | | | | | |
| diversity and complexity of modern retail management. | | | | n of Business: Small Business Ma | naaement - | | | | |
| | | ments for the Certificate | | | | sework (9 Units) as follows: | nugement | | |
| | Required c | | | | BUSM 20 | Principles of Business | 3.0 CSU,UC | | |
| | | n of the Retail Management - Lev | el I | | BUSM 66 | Small Business Management | 3.0 CSU | | |
| - | | k (9.5 Units) as follows: | 2.0 | CCU | BUSS 36 | Principles of Marketing | 3.0 CSU | | |
| | BUSO 25 | Business Communications | | CSU | Plus the fo | llowing courses: | | | |
| | BUSS 50 | Retail Store Management | 3.0 | | Level II as follows: | | | | |
| | | and Merchandising | | | BUSM 60 | Human Relations in Business | 3.0 CSU | | |
| | FACH CO | <u>Oľ</u> Detail Store Management | 2 ^ | CCU | BUSM 61 | Business Organization | 3.0 CSU | | |
| | FASH 62 | Retail Store Management | 5.0 | CSU | 202.00 | and Management | 5.0 650 | | |
| | CISB 15 | and Merchandising | 10 | CSU,UC | BUSM 62 | Human Resource Management | 3.0 | | |
| | | Microcomputer Applications | 4.0 | C30,0C | 50511102 | Total Units | 18.0 | | |
| | Required c | | | | Special Inf | | | | |
| | Completion of the Retail Management - Level II coursework (21.5 Units) as follows: | | | · · | | | | | |
| | | | | | ceiving financial aid need to dec | | | | |
| | BUSA 11 | Fundamentals of Accounting | 3.0 | <u>(())</u> | | te as their goal to meet Financia | i Ald | | |
| | BUSM 61 | Business Organization | 3.0 | CSU | requiremer | 115. | | | |
| | DUCM (2 | and Management | 2 ^ | | | | | | |
| | BUSM 62 | Human Resource Management | 3.0 | CCU | | | | | |
| | BUSS 36 | Principles of Marketing | 3.0 | CSU | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

| Business: Small Business | | | |
|--|---|--|--|
| Management - Level III | | | |
| Accounting and Management Department | 0 | | |
| Certificate T0590 | 0 | | |
| Upon completion of the Business: Small Business | T | | |
| Management - Level III Certificate, students will have | S | | |

built a foundation of management strategies and practices which will enable them to prosper in an everchanging 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 . . .

| completion of Busilessi Sinan Busiless management | | | | | L 7 | | |
|---|--|-----------------------------------|-------|--------|-----|--|--|
| | Level I and | ll coursework (18.5 Units) as fol | lows: | | 0 | | |
| | 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 co | ourses: | | | | | |
| | BUSM 60 | Human Relations in Business | 3.0 | CSU | 0 | | |
| | BUSM 61 | Business Organization | 3.0 | CSU | | | |
| | | and Management | | | 0 | | |
| | BUSM 62 | Human Resource Management | 3.0 | | | | |
| | Plus the fol | llowing courses: | | | 0 | | |
| | Level III as f | follows: | | | | | |
| | BUSA 7 | Principles of Accounting | 5.0 | CSU,UC | | | |
| | | - Financial | | | 0 | | |
| | BUSM 10 | Principles of Continuous | 3.0 | | | | |
| | | Quality Improvement | | | ŀ | | |
| | CISB 15 | Microcomputer Applications | 4.0 | CSU,UC | S (| | |
| | Total Units 30.0 | | | | | | |
| | Special Information: | | | | | | |
| | Students receiving financial aid need to declare the Level | | | | | | |

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 Development and skills in administering programs for young children. This certificate meets or exceeds Title 22 education | CHLD 71B Management/Marketing/ 3.0 Personnel for ECD Programs 2.0 CHLD 75 Supervising Adults in Early 2.0 Childhood Settings 2.0 PLUS Select four (4) units from: Note: Your four (4) unit selection should not include any course you have previously taken. 3.0 BUSM 66 Small Business Management 3.0 CSU Supervisition of Supervisition Statement 3.0 | Children's Program Certificate: General - Level III Child Development Certificate L1327 This third level of the Children's Program Certificate: General is expected to meet or exceed Title 5 education requirements for Assistant Teacher, Associate Teacher, and Teacher (with 16 units of G.E.) |
|--|--|---|
| requirements for Center Director. Direct experience with children is highly recommended to complete preparation to be an effective administrator. Requirements for the Certificate | CHLD 72 Teacher, Parent 3.0 and Child Relationships | Requirements for the Certificate Required courses: Completion of the Children's Program coursework: General - Level I, as follows: CIUD 1 Child Emilyand Computing 2.0. CCUUC |
| Required courses:Completion of the Children's Program Certificate:General as follows:CHLD 1 Child, Family and Community 3.0 CSU,UC | CHLD 82 Advocacy in Early Childhood 1.0 Development CHLD 83 Current Issues in Child 1.0 Development | CHLD 1 Child, Family and Community 3.0 CSU,UC CHLD 5 Principles/Practices 3.0 CSU in Child Development Programs Survey of Child 3.0 CSU Development Curriculum Survey of Child Survey Survey |
| CHLD 5 Principles/Practices 3.0 CSU in Child Development Programs CHLD 6 Survey of Child 3.0 CSU Development Curriculum CHLD 6 Child Curriculum CHLUS | Total Units 43.0 Children's Program Certificate: General - Level II | CHLD 10 Child Growth and Development 3.0 CSU,UC <u>or</u> |
| CHLD 10 Child Growth and Development 3.0 CSU,UC Or Or Or Or CHLD 10H Child Growth and Development 3.0 CSU,UC - Honors Health, Safety and Nutrition 3.0 CSU | Child Development Certificate L1328 This certificate enhances the student's knowledge beyond Level I, providing additional skills in working with your children. | Plus the following courses:Level II as follows:CHLD 64Health, Safety and Nutrition3.0CSUof Young Children |
| of Young Children CHLD 68 Children with Special Needs 3.0 CSU CHLD 84 Guidance and Discipline 1.0 CSU in Child Development Settings | Requirements for the Certificate Required courses: Completion of the Children's Program work: General - Level I, as follows: | CHLD 68 Children with Special Needs 3.0 CSU CHLD 84 Guidance & Discipline 1.0 CSU in Early Childhood Settings PLUS Select three (3) courses from: |
| PLUSSelect three (3) courses from:CHLD 61Language Arts & Art Media3.0 | 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 | Level III as follows:CHLD 50Multicultural Education:3.0Anti-Bias Perspective |
| for Young Children CHLD 62 Music and Motor Development 3.0 CSU for Young Children CHLD 63 Creative Sciencing 3.0 | Development Curriculum CHLD 10 Child Growth and Development 3.0 CSU,UC <u>or</u> | CHLD 61 Language Arts & Art Media 3.0 for Young Children CHLD 62 Music and Motor Development 3.0 CSU for Young Children |
| and Math for Young Children CHLD 73 Infant/Toddler Care 3.0 CSU and Development PLUS | CHLD 10H Child Growth and Development 3.0 CSU,UC - Honors Plus the following courses: Level II as follows: | CHLD 63 Creative Sciencing and Math 3.0 for Young Children CHLD 73 Infant/Toddler Care 3.0 CSU and Development |
| Additional required courses: CHLD 50 Multicultural Education: 3.0 Anti-Bias Perspective CHLD 71A Administration of Child 3.0 Development Programs | CHLD 64Health, Safety and Nutrition3.0CSUof Young Children | Total Units 28.0 |

| Certificat | e T1311 | | | | |
|---|---|------|-------|--|--|
| The Children's Programs Small Business Management Certificate provides information for operating or owning a preschool. | | | | | |
| | ments for the Certificate | | | | |
| BUSM 60 | Human Relations in Business | 3.0 | CSU | | |
| BUSM 66 | Small Business Management | 3.0 | CSU | | |
| BUSO 5 | Business English | 3.0 | | | |
| CHLD 1 | Child, Family and Community | 3.0 | CSU,U | | |
| CHLD 5 | Principles/Practices | | | | |
| | in Child Development Programs | 3.0 | CSU | | |
| CHLD 6 | Survey of Child Development Curriculum | 3.0 | CSU | | |
| CHLD 10 | Child Growth and Development <u>or</u> | 3.0 | CSU,U | | |
| CHLD 10H | Child Growth and Development - Honors | 3.0 | CSU,U | | |
| CHLD 64 | Health, Safety and Nutrition of Young Children | 3.0 | CSU | | |
| CHLD 71A | Administration of Child Development Programs | 3.0 | CSU | | |
| CHLD 71B | Management/Marketing/ Personnel for ECD Programs | 3.0 | | | |
| FCS 41 | Life Management | 3.0 | CSU | | |
| | Total Units | 33.0 | | | |
| Recommen | ded Electives: | | | | |
| BUSA 70 | Payroll and Tax Accounting or | | | | |
| BUSA 71 | Financial Planning | | | | |
| BUSL 18 | Business Law | | | | |
| 0002.10 | or | | | | |
| BUSL 18H | Business Law - Honors | | | | |
| BUSM 20 | Principles of Business | | | | |
| BUSM 61 | Business Organization and Mana | aeme | nt | | |
| BUSO 25 | Business Communications | 5 | | | |
| BUSS 33 | Advertising and Promotion | | | | |
| BUSS 36 | Principles of Marketing | | | | |
| CISB 11 | Computer Information Systems | | | | |

| cate | | | | | |
|-------------|--|---------|---------------------------|------------|--|
| | | | | PLUS | |
| | en's Program Certifica | te: | | Select two | (2) courses from: |
| Teachir | ıg | | | CHLD 51 | Early Literacy in |
| Child Dev | /elopment | | | | Child Development |
| Certificat | e T1312 | CHLD 61 | Language Arts & Art Media | | |
| The Childre | n's Program Certificate: Teaching S | Specia | alization | | for Young Children |
| is designed | for the student who desires know | vledg | je about | CHLD 62 | Music and Motor Developmen |
| | nood Development and skills for t | | | | for Young Children |
| | Iren. This certificate meets or exce | | | CHLD 63 | Creative Sciencing and Math |
| | equirements for fully qualified tea | | s and is | | for Young Children |
| | meet or exceed Title 5 education | | | | Total Units |
| | its for Teacher Level (with 16 unit th or Science, Social Science and I | | | | |
| - | | nuille | inities). | Compu | uter and Networking |
| Required co | nents for the Certificate | | | | ology - Level I |
| CHLD 1 | | 2 0 | CSU,UC | | ics and Computer |
| CHLD T | Child, Family and Community Principles/Practices | | CSU,UC | | ogy Department |
| CILU J | in Child Development Programs | 5.0 | (30 | Certificat | te L0795 |
| CHLD 6 | Survey of Child | 30 | CSU | The Compu | ter and Networking Technology |
| CILDO | Development Curriculum | 5.0 | CJU | | programs prepare students to be |
| CHLD 10 | Child Growth and Development | 3 0 | CSU,UC | | rking service technicians. Course |
| CILD IV | <u>Or</u> | 5.0 | 00,00 | | certificate provide foundations in |
| CHLD 10H | Child Growth and Development | 30 | CSU,UC | | nics, operating systems, compute oting, and preparation for the A- |
| | - Honors | 5.0 | | | n sponsored by CompTIA and of |
| CHLD 64 | Health, Safety and Nutrition | 3.0 | CSU | | oughout the country. Level I cert |
| | of Young Children | | | | tall, configure, maintain, trouble |
| CHLD 68 | Children with Special Needs | 3.0 | CSU | | and networks. With further prep |
| CHLD 84 | Guidance and Discipline | 1.0 | CSU | | II certificate, students will read |
| | in Child Development Settings | | | | IA Network+, Server+, and Secu |
| Plus the fo | llowing courses: | | | | n tests. These industry certification |
| CHLD 50 | Multicultural Education: | 3.0 | | | worldwide as benchmarks for the technician. Further, students with the technician is the technician of the technic tec |
| CITED 50 | Anti-Bias Perspective | 5.0 | | | which to seek additional I.T. cert |
| CHLD 66 | Early Childhood Development | 20 | CSU | | or the computer and networking |
| 0.120 00 | Observation | 2.0 | | | ments for the Certificate |
| CHLD 66L | Early Childhood Development | 1.0 | CSU | Required c | |
| | Observation Laboratory | | | CNET 50 | PC Servicing |
| CHLD 67 | Early Childhood Development | 2.0 | CSU | CNET 52 | PC Operating Systems |
| | Participation | | | CNET 54 | PC Troubleshooting |
| CHLD 67L | Early Childhood Development | 1.0 | CSU | CNET 60 | A+ Certification Preparation |
| | Participation Laboratory | | | ELEC 11 | Technical Applications |
| CHLD 69 | Early Childhood Development | 2.0 | CSU | | in Microcomputers |
| | Field Work Seminar | | | | <u>or</u> |
| CHLD 75 | Supervising Adults in Early | 2.0 | | CISB 15 | Microcomputer Applications |
| | Childhood Settings | | | ELEC 50A | Electronic Circuits (DC) |
| CHLD 91 | Early Childhood Development | 1.0 | CSU | ELEC 50B | Electronic Circuits (AC) |
| | Field Work | | | ELEC 56 | Digital Electronics |
| | | | | | Total Units |
| | | | | | |

1: 3.0 in nent & Art Media 3.0 dren tor Development 3.0 CSU dren cing and Math 3.0 dren 39.0 etworking

ing Technology Level I and II e students to become computer hnicians. Courses required for le foundations in basic electricity ystems, computer service and ration for the A+ certification CompTIA and offered at testing ntry. Level I certificate students aintain, troubleshoot, and repair /ith further preparation leading udents will ready themselves for rver+, and Security+ ustry certifications are enchmarks for the computer and her, students will have requisite ditional I.T. certifications and networking fields. e Certificate

4.0

4.0

4.0

2.0

3.0 CSU

4.0 CSU,UC

4.0 CSU

4.0 CSU

4.0 CSU

29.0 - 30.0

ELEC 74

EST 54

Microprocessor Systems

Cabling and Wiring Standards

Computer and Networking Technology - Level II **Electronics and Computer Technology Department** Certificate T0726 The Computer and Networking Technology Level I and II

certificate programs prepare students to become computer and networking service technicians. Courses required for the Level I certificate provide foundations in basic electricity and electronics, operating systems, computer service and troubleshooting, and preparation for the A+ certification examination sponsored by CompTIA and offered at testing centers throughout the country. In addition to the Level I certificate requirements, students seeking the Level II certificate cover computer networks, servers, and customer relations, and will take preparatory courses for the CompTIA Network+, Server+, and Security+ certification exams. These industry certifications are recognized worldwide as benchmarks for the computer and networking technician. Further, students will have requisite skills upon which to seek additional I.T. certifications available for the computer and networking fields. Requirements for the Certificate Required courses: Completion of the Computer and Networking Technology -Level I coursework, as follows: CNET 50 PC Servicing 4.0 CNET 52 4.0 PC Operating Systems CNET 54 PC Troubleshooting 4.0 CNET 60 A+ Certification Preparation 2.0 3.0 CSU ELEC 11 Technical Applications in Microcomputers or 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 Plus the following courses: Level II as follows: CNET 56 **Computer Networks** 4.0 CNET 62 Network+ Certification Preparation 2.0 CNET 64 Server Certification Preparation 2.0 CNET 66 Security Certification Preparation 2.0 TECH 60 **Customer Relations** 1.0 for the Technician **Total Units** 43.0 - 44.0 **Recommended Electives:** ELEC 51 **Electronic Devices**

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.

Requirements for the Certificate *Required courses:*

| GRAP 1 | Computer Graphics Lab | 1.0 | |
|----------|---------------------------------|---------|--------|
| GRAP 10 | Photo Editing with Photoshop | 3.0 | |
| GRAP 12 | Advanced Photo Editing | 3.0 | |
| | with Photoshop | | |
| GRAP 14 | Digital Color Management | 3.0 | |
| GRAP 16 | Digital Image Design | 3.0 | |
| | with Illustrator & Freehand | | |
| 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 | 24.0 | |
| Recommen | nded Electives: | | |
| AHIS 1 | Understanding the Visual Arts | | |
| | <u>or</u> | | |
| ARTB 1 | Understanding the Visual Arts | | |
| COMP 10 | Operating the Macintosh Comp | uter | |
| GRAP 18 | Advanced Image Design | | |
| | - 3D Modeling Techniques | | |
| GRAP 24 | Work Experience in Computer (| Graphic | S |
| PHOT 1 | Laboratory Studies: | | |
| | Black and White Photography | | |
| PHOT 2 | Laboratory Studies: Color Photo | ography | 1 |
| PHOT 4 | Digital Cameras and Compositi | on | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

Computer Systems Technology Electronics and Computer Technology Department Certificate L0924

In addition to courses in electronics fundamentals, the Computer Systems Technology certificate encompasses advanced coursework in computer systems circuitry, including microcontrollers and microprocessors. This advanced certificate is one of three available for students who do not complete all second-year systems courses at once, or who complete them one at a time. Two other certificate programs are also available: a one-year certificate in Electronics Technology, and a two-year certificate having the same title as the A.S. degree. A.S. degree recipients are automatically eligible to receive, without further examination, a 3rd class Technician License from the National Association of Radio and Telecommunications Engineers (N.A.R.T.E.), while students completing certificate programs are automatically eligible for the N.A.R.T.F. 4th Class Technician license. **Requirements for the Certificate**

Required courses:

| | Total Units | 29.0 | |
|----------|--------------------------|------|-----|
| | for the Technician | | |
| TECH 60 | Customer Relations | 1.0 | |
| ELEC 74 | Microprocessor Systems | 4.0 | CSU |
| | and Fabrication | 3.0 | CSU |
| ELEC 61 | Electronic Assembly | | |
| ELEC 56 | Digital Electronics | 4.0 | CSU |
| ELEC 51 | Electronic Devices | 4.0 | CSU |
| ELEC 50B | Electronic Circuits (AC) | 4.0 | CSU |
| ELEC 50A | Electronic Circuits (DC) | 4.0 | CSU |
| | and Troubleshooting | | |
| ELEC 12 | Computer Simulation | 2.0 | |
| | in Microcomputers | | |
| ELEC 11 | Technical Applications | 3.0 | CSU |

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 3.0 CSU and Specifications

| ARCH 14 | Building and Zoning Codes | 3.0 | | | |
|------------------------|-------------------------------|------|-----|--|--|
| INSP 17 | Legal Aspects of Construction | 3.0 | CSL | | |
| INSP 70 | Elements of Construction | 3.0 | CSL | | |
| INSP 71 | Construction Estimating | 3.0 | CSL | | |
| INSP 87 | Fundamentals of Construction | 3.0 | | | |
| | Inspection | | | | |
| MATH 51 | Elementary Algebra | 4.0 | | | |
| | Total Units | 22.0 | | | |
| Recommended Electives: | | | | | |
| ARCH 11 | Architectural Drawing | | | | |
| ADCUAT | | | | | |

ARCH 15 Architectural Working Drawings - I EDT 26 Civil Engineering Technology and CAD

INSP 67 Reading Construction Drawings

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 3.0 CSU.UC Business Law, or 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 Financial Planning 3.0 CSU FCS 80

3.0 CSU

or

BUSA 71

Financial Planning

| FCS 91 | Work Experience in Family and Consumer Sciences | 1.0 | |
|--------------|--|-----|--------|
| | <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 |

Correctional Sciences Public Services Department Certificate T2103

Total Units

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 *Required courses:*

| | ADJU 68 | Administration of Justice | 3.0 | |
|--------|--|---|-------------------|---------------|
| | | Report Writing | | |
| | CORS 10 | Introduction to Correctional | 3.0 | CSU |
| | | Sciences | | |
| | CORS 15 | Control and Supervision | 3.0 | |
| | | of the Offender | | |
| | CORS 20 | Correctional Law | 3.0 | |
| | CORS 25 | Probation and Parole | 3.0 | |
| | CORS 30 | Ethnic Relations in Corrections | 3.0 | |
| | PLUS | | | |
| | C.1 C | (4) | | |
| | Select toul | r (4) courses from: | | |
| c | ADJU 1 | The Administration | 3.0 | CSU,UC |
| C | | | 3.0 | CSU,UC |
| C C | | The Administration | 3.0 3.0 | CSU,UC CSU |
| | ADJU 1 | The Administration of Justice System | | |
| | ADJU 1 | The Administration of Justice System Principles and Procedures | | |
| | ADJU 1 Adju 2 | The Administration of Justice System Principles and Procedures of the Justice System | 3.0 | CSU |
| | ADJU 1 Adju 2 Adju 20 | The Administration of Justice System Principles and Procedures of the Justice System Principles of Investigation | 3.0 3.0 | CSU |
| | ADJU 1 ADJU 2 ADJU 20 ADJU 38 | The Administration of Justice System Principles and Procedures of the Justice System Principles of Investigation Narcotics Investigation | 3.0 3.0 3.0 | CSU CSU |

19.0 - 20.0

| CORS 35 | Interviewing and Counseling | 3.0 |
|---------|----------------------------------|----------------|
| | in Corrections | |
| 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 S | Science |
| PE-F 51 | Agility Testing Preparation | |
| | for Law Enforcement and Fire S | Science |
| PE-F 52 | Fitness and Conditioning for La | w Enforcement, |
| | Fire Science and Forestry | |
| SPAN 66 | Spanish for Fire and Police Pers | sonnel |
| | | |

Digital Photographic Technician Commercial and Entertainment Arts Department Certificate L0300

This certificate program is designed to give students specific skills to prepare them for employment in the commercial photographic industry as a digital technician, digital assistant, digital imaging specialist, or photography assistant.

Requirements for the Certificate

| GRAP 9 | Digital Color Management | 3.0 |
|---------|------------------------------------|-----|
| GRAP 10 | Photo Editing with Photoshop | 3.0 |
| PHOT 10 | Basic Digital and Film Photography | 3.0 |
| PHOT 11 | Professional Photography | 4.0 |
| PHOT 14 | Commercial Lighting | 3.0 |
| PHOT 20 | Color Photography | 3.0 |
| PHOT 30 | Commercial/Illustrative | 3.0 |
| | Photography | |
| | Total Units 2 | 5.0 |
| | | |

Recommended Electives:

- CISB 16 Macintosh Applications GRAP 12 Photoshop Imagery Extended
- PHOT 1 Laboratory Studies: Black and White Photography
- PHOT 29 Studio Business Practices for Commercial Artists

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:*

| nequireu | | |
|-------------|---|----------------|
| ELEC 11 | Technical Applications | 3.0 CSU |
| | in Microcomputers | |
| | <u>or</u> | |
| CISB 15 | Microcomputer Applications | 4.0 CSU,UC |
| EST 50 | Electrical Fundamentals | 4.0 |
| | for Cable Installations | |
| EST 52 | Fabrication Techniques | 4.0 |
| | for Cable Installations | |
| EST 54 | Cabling and Wiring Standards | 4.0 |
| Plus the fo | ollowing 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 | | |
| | (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 |
| Recomme | nded Electives: | |
| ELEC 61 | Electronic Assembly and Fabrica | ation |
| ELEC 62 | Advanced Surface Mount Assem | bly and Rework |
| | | |
| | ics and Computer | |
| | ering Technology | |
| | and Computer y Department | |
| Certificate | | |
| | nics and Computer Engineering Tec | hnology (ECET) |
| | program prepares individuals either | |
| | nt or for enhancement of existing s | |
| | | and in the |
| electronics | field, or for transfer into B.S. progra | ams in |

Electronics Technology or Industrial Technology offered in the CSU system. Required courses for the certificate — many of which articulate directly to their equivalents at the CSUs — are the same as for the ECET A.S. degree program except for the college General Education requirement. In addition to exposing students to core topics such as components and circuits, the program includes coursework in advanced areas including microcontrollers and interfacing, communications, and industrial electronic controls. Nearly all laboratories have new, state-of-the-art equipment to provide students with quality, hands-on learning experiences.

Students completing the ECET certificate program possess ample skills to make them versatile employees. Typical technician-level job classifications include field service technician, field engineer, computer service technician, customer service technician, communications technician, maintenance technician, and electronics technician. All students completing the certificate program are automatically eligible to receive, without further examination, the 4th class technician license from the National Association of Radio and Telecommunications Engineers (N.A.R.T.E.).

Requirements for the Certificate

| | Required co | ourses: | | |
|----|-------------|-------------------------------|------|-----|
| | ELEC 11 | Technical Applications | 3.0 | CSU |
| | | in Microcomputers | | |
| | ELEC 12 | Computer Simulation | 2.0 | |
| | | and Troubleshooting | | |
| | 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 | 3.0 | CSU |
| | | and Fabrication | | |
| | ELEC 74 | Microprocessor Systems | 4.0 | CSU |
| rk | TECH 60 | Customer Relations | 1.0 | |
| _ | | for the Technician | | |
| | | Total Units | 44.0 | |
| | Recommen | ded Electives: | | |
| | CISP 11 | Programming in Visual Basic | | |
| | EDT 11 | Technical Engineering Drawing | J I | |
| | ELEC 62 | Advanced Surface Mount Asser | nbly | |
| () | | and Rework | | |
| | ELEC 76 | Radio Telephone Communicati | ons | |
| | PHYS 2AG | General Physics | | |
| | | | | |

Electronics Communications Electronics and Computer Technology Department Certificate T0904

In addition to courses in electronics fundamentals, the Electronics Communications certificate program encompasses the study of both wire-based and wireless forms of analog and digital communications systems. Among the topics covered are amplitude and frequency modulation, multiplexing, antennas, transmission lines, and radio-wave propagation, as well as microwave systems, including radar and satellite operations.

This advanced certificate is one of three available for students who do not complete all second-year systems courses at once, or who complete them one at a time. Two other certificate programs are also available: a oneyear certificate in Electronics Technology, and a two-year certificate having the same title as the A.S. degree. A.S. degree recipients are automatically eligible to receive, without further examination, a 3rd class Technician License from the National Association of Radio and Telecommunications Engineers (N.A.R.T.E.), while students completing certificate programs are automatically eligible for 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 | 2.0 | |
| | and Troubleshooting | | |
| 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 | 3.0 | CSU |
| | and Fabrication | | |
| TECH 60 | Customer Relations for the Techni | cian | 1.0 |
| | Total Units 3 | 33.0 | |
| | | | |

Electronics Technology Electronics and Computer Technology Department Certificate L0905

This one-year program covers the fundamentals of electronics technology. These core courses provide the necessary skills for those seeking entry-level employment as electronics technicians without areas of specialization. Also included is a course in customer-relations training.

| Requirements for the Certificate | | | | | | | |
|----------------------------------|--------------------------|------|-----|--|--|--|--|
| Required c | ourses: | | | | | | |
| ELEC 11 | Technical Applications | 3.0 | CSU | | | | |
| | in Microcomputers | | | | | | |
| ELEC 12 | Computer Simulation and | 2.0 | | | | | |
| | Troubleshooting | | | | | | |
| 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 | 3.0 | CSU | | | | |
| | and Fabrication | | | | | | |
| TECH 60 | Customer Relations | 1.0 | | | | | |
| | for the Technician | | | | | | |
| | Total Units | 25.0 | | | | | |
| | | | | | | | |

Electronics: Industrial Systems Electronics and Computer Technology Department Certificate T0908

In addition to courses in electronics fundamentals, the Industrial Systems curriculum encompasses advanced coursework in industrial electronics, including electronic devices for industrial and motor controls. The curriculum culminates in the study of programmable logic controls (PLCs) using the Allen-Bradley series of PLCs running Windows ladder logic software.

This advanced certificate is one of three available for students who do not complete all second-year systems courses at once, or who complete them one at a time. Two other certificate programs are also available: a one-year certificate in Electronics Technology, and a two-year certificate having the same title as the A.S. degree. A.S. degree recipients are automatically eligible to receive, without further examination, a 3rd class Technician License from the National Association of Radio and Telecommunications Engineers (N.A.R.T.E.), while students completing certificate programs are automatically eligible for 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 | 2.0 | | | | |
| | and Troubleshooting | | | | | |
| 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 | 3.0 | CSU | | | |
| | and Fabrication | | | | | |
| TECH 60 | Customer Relations | 1.0 | | | | |
| | for the Technician | | | | | |
| | Total Units | 32.0 | | | | |

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 co | urses: | |
|-------------|-----------------------------|-----|
| 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 | 5.0 |
| EMS 60 | EMS Theory for Paramedics | 8.5 |
| | | |

| EMS 70 | Paramedic Clinical Internship | 4.0 |
|----------|----------------------------------|-------|
| EMS 80 | Paramedic Field Externship | 9.5 |
| | Total Units | 41.00 |
| Recommen | ded Electives: | |
| ADJU 1 | The Administration of Justice Sy | ystem |
| FIRE 1 | Fire Protection Organization | |
| PSYC 1A | Introduction to Psychology | |
| | <u>or</u> | |
| PSYC 1AH | Introduction to Psychology | |
| SOC 1 | Sociology | |
| | <u>or</u> | |
| SOC 1H | 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.

EMT Program Readmission Policy

If the student fails any of the co-requisite courses, EMS 10 - EMS 60, he/she will be dropped from the programs. If the student wishes to repeat the program, a *Success Plan and Contract* will be developed with the faculty to increase the student's chances of success prior to re-entry. If the student withdraws or is dismissed from the program a second time, he/she will not be allowed to reenter the Paramedic Program at Mt. SAC.

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.
- 2) 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 terminolog 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: anatom 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/ transferring patients
- Possess the ability to perform fine motor movement with hands and fingers
- Possess the ability for extremely heavy effort (lift an carry at least 125 pounds)
- Perform considerable reaching, stooping, bending, kneeling, and crouching

Sensory Demands:

- <u>Color vision</u>: ability to distinguish and identify color (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 disease
- Exposed to hazardous agents, body fluids and waste
- Exposed to odorous chemicals and specimens
- Subject to hazards of flammable, explosive gases
- Subject to burns and cuts
- Handle emergency or crisis situations
- Subject to many interruptions

| | Conta | ct with patients having different religious, | | · | | EDT 12 | Technical Engineering Drawing | II 3.0 CSU |
|-------|--------------|---|--------------|---|-------------|----------|--------------------------------|-------------|
| 0 | cultur | re, ethnicity, race, sexual orientation, | - | eering Design Techno | logy | EDT 14 | Mechanical Design | 3.0 CSU |
| | psych | ological and physical disabilities, and under a | - Leve | | | | - Geometric Dimensioning and | Tolerancing |
| | wide | variety of circumstances | | ture and Engineering Department | | EDT 16 | Basic CAD and Computer | 4.0 CSU |
| | Requi | ires decisions/actions related to end of life issu | - | ite T0915 | | | Applications | |
| | | sure to products containing latex | cerunca | | | EDT 18 | Engineering CAD Applications | 4.0 CSU |
| | | sale to products containing latex | | eering Design Technology Level II Ce | | MFG 11 | Manufacturing Processes I | 2.0 CSU |
| | English Lar | nguage Skills: | | o provide focused technical groundi | | oses | <u>or</u> | |
| | | oficiency in English is not a criteria for admission | anablac ct | o parametric design technology. This udents to pursue competitive emplo | | ELEC 50/ | A Electronic Circuits (DC) | 4.0 CSU |
| | | sing program, students are encouraged to be able | tochnical d | lesign field, beyond entry level. | iyment in t | | d courses: | |
| ogy, | | ite and read English to complete classes successfu | | • • • | | | as follows: | |
| d | and to ensu | re safety for themselves and for others. | Required | ments for the Certificate | | EDT 20 | Technical Descriptive Geometry | 3.0 CSU |
| ns. | | | Level I as i | | | EDT 24 | Engineering CAD 3-D Solids | 3.0 CSU |
| | Engine | ering Design Technology | EDT 11 | Technical Engineering Drawing | | | and Surfaces | 510 650 |
| my | - Level | I | EDT 12 | Technical Engineering Drawing | | | | 4.0 CSU |
| | | ure and Engineering | EDT 12 | Mechanical Design | 3.0 CSI | | Manufacturing Processes I | 2.0 CSU |
| | - | epartment | | - Geometric Dimensioning and | | | <u>or</u> | 2.0 0.00 |
| | Certificat | | EDT 16 | Basic CAD and Computer | 4.0 CSI | | | 4.0 CSU |
| | | ering Design Technology Level I Certificate is | | Applications | 4.0 CJ | | following courses: | 1.0 0.00 |
| l/or | | prepare students for entry-level employme | nt EDT 18 | Engineering CAD Applications | 4.0 CSI | . | 5 | 2.0. ((1) |
| | | nical and computer-aided drafting design | | Manufacturing Processes I | 2.0 CSI | 20120 | Civil Engineering Technology | 3.0 CSU |
| nts | | n completion of the Level I Certificate, studer pared in fundamental working practices | | <u>or</u> | 2.0 (5) | | and CAD | 2.0. ((1) |
| | | he technical design field. | ELEC 50A | <u>Dr</u> Electronic Circuits (DC) | 4.0 CSI | EDT 28 | Engineering CAD 3-D | 3.0 CSU |
| and | | 5 | | | 4.0 CJ | | Illustration/Animation | 27.0 41.0 |
| | Required co | ments for the Certificate | | ollowing courses: | 2.0.00 | . | Total Units | 37.0 - 41.0 |
| | EDT 11 | Technical Engineering Drawing 1 3.0 CSU | EDT 20 | Technical Descriptive Geometry | | | | |
| , | EDT 12 | Technical Engineering Drawing I 3.0 CSU | EDT 24 | Engineering CAD 3-D Solids | 3.0 CSI | | w Management | |
| | EDT 12 | Mechanical Design 3.0 CSU | 51 56 500 | and Surfaces | | | ss Administration Departme | ent |
| | EUT 14 | - Geometric Dimensioning and Tolerancing | ELEC 50B | Electronic Circuits (AC) | 4.0 CSI | | cate L0511 | |
| lors | EDT 16 | Basic CAD and Computer 4.0 CSU | MFG 11 | Manufacturing Processes I | 2.0 CSI | nequi | rements for the Certificate | |
| | LDI IO | Applications 4.0 CS0 | 5156504 | <u>0r</u> | | | d courses: | |
| ore | EDT 18 | Engineering CAD Applications 4.0 CSU | ELEC 50A | Electronic Circuits (DC) | 4.0 CSI | | , | 3.0 |
| | | Engineering CAD Applications 4.0 CS0 | | Total Units | 31.0 - 35 | | | 3.0 CSU |
| | PLUS | | | | | BUSR 51 | 5 1 | 3.0 |
| | | (1) course from: | Engin | eering Design Techno | ology | BUSR 76 | | 3.0 |
| | ELEC 50A | Electronic Circuits (DC) 4.0 CSU | - Leve | | | BUSR 77 | | 3.0 |
| | MFG 11 | Manufacturing Processes I 2.0 CSU | | ture and Engineering | | CISB 15 | Microcomputer Applications | 4.0 CSU,U |
| | | Total Units 19.0 - 21.0 | - | Department Ite T0916 | | | Total Units | 19.0 |
| ase, | Special Info | ormation: | | | | | | |
| | | terested in pursuing transfer and a Bachelor | | eering Design Technology Level III | | 2 | | |
| ses | | ngineering or Engineering Technology are | | n the civil and structural design fic ing three-dimensional illustration | | | | |
| tes | | verify with each transfer institution specific | | . This certificate allows students t | | | | |
| | | its for transfer and appropriate courses. | omploym | ent in the civil design fields. | o puisue | | | |
| | | nts vary depending on specialty and instituti | on i ' | ments for the Certificate | | | | |
| | | clude areas such as math at the levels of | | | | | | |
| | | trigonometry at a minimum. See the Mt. SA der either Engineering or Surveying for a list | | | | | | |
| | catalog ung | | | | | | | |

EDT 11

Technical Engineering Drawing I 3.0 CSU

transferable engineering courses.

ne Certificate

| | Total Units | 19.0 | |
|---------|------------------------------|------|--------|
| CISB 15 | Microcomputer Applications | 4.0 | CSU,UC |
| BUSR 77 | Escrow Procedures II | 3.0 | |
| BUSR 76 | Escrow Procedures I | 3.0 | |
| BUSR 51 | Legal Aspects of Real Estate | 3.0 | |
| BUSR 50 | Real Estate Principles | 3.0 | CSU |
| BUSA 11 | Fundamentals of Accounting | 3.0 | |

Family Child Care Child Development Certificate L1316

The Family Child Care Certificate provides the information necessary for operating or owning a family child care business in the home.

Requirements for the Certificate Reauired courses:

| nequireu co | Jurses. | | | |
|--------------|-------------------------------|------|--------|-----------------------|
| CHLD 1 | Child, Family and Community | 3.0 | CSU,UC | and p |
| CHLD 5 | Principles/Practices | 3.0 | CSU | that s |
| | in Child Development Programs | ; | | contri |
| CHLD 6 | Survey of Child Development | 3.0 | CSU | |
| | Curriculum | | | Requ |
| CHLD 10 | Child Growth and Development | 3.0 | CSU,UC | Requ i FASH |
| | <u>or</u> | | | FASH |
| CHLD 10H | Child Growth and Development | 3.0 | CSU,UC | FASH |
| | - Honors | | | FASH |
| CHLD 92 | Family Child Care | 3.0 | | FASH |
| Plus the fo | llowing courses: | | | газп |
| CHLD 64 | Health, Safety and Nutrition | 3.0 | CSU | FASH |
| | of Young Children | | | |
| CHLD 68 | Children with Special Needs | 3.0 | CSU | |
| CHLD 84 | Guidance and Discipline | 1.0 | CSU | Recor |
| | in Child Development Settings | | | FASH |
| PLUS | 1 5 | | | FASH |
| Select one (| (1) course from: | | | FASH |
| CHLD 50 | Multicultural Education: | 3.0 | | FASH |
| | Anti-Bias Perspective | | | FASH |
| CHLD 66 | Early Childhood Development | 2.0 | CSU | FASH |
| | Observation | | | FASH |
| CHLD 66L | Early Childhood Development | 1.0 | CSU | |
| | Observation Laboratory | | | |
| CHLD 72 | Teacher, Parent | 3.0 | | |
| | and Child Relationships | | | |
| CHLD 73 | Infant/Toddler Care | 3.0 | CSU | |
| | and Development | | | |
| | Total Units | 23.0 | - 25.0 | |
| | | | | |
| | | | | |
| | | | | |

Fashion Design - Level I **Consumer Science and Design Technologies** 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 1 Certificate, students may qualify for an entry-level design and pattern making positions in Southern California's diverse apparel 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:

| uired co | urses: | | |
|----------|---------------------------------------|-------|-----|
| H 8 | Introduction to Fashion | 3.0 | CSU |
| H 10 | Clothing Construction I | 3.0 | CSU |
| H 15 | Fashion and Identity | 3.0 | CSU |
| H 17 | Textiles | 3.0 | |
| H 25 | Fashion Computer -Assisted Drawing | 3.0 | |
| H 30 | Fashion Design | 3.0 | |
| | and Product Development I | | |
| | Total Units | 18.0 | |
| ommend | led Electives: | | |
| H 24 | Fashion Patternmaking by Com | puter | |
| H 26 | Fashion Computer-Assisted Des | sign | |
| H 35 | Special Topics in Fashion | | |
| H 81 | Work Experience | | |
| H 90 | Field Studies | | |
| H 91 | Field Studies - New York | | |
| H 92 | Field Studies - Fashion Capitals | | |
| | | | |
| | | | |
| | | | |

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:**

I ovol I as follows.

FASH 21

FASH 22

FASH 23

FASH 24

FASH 31

FASH 32

FASH 26

FASH 35

FASH 81

FASH 90

FASH 91

FASH 92

Total Units

Fashion Computer-Assisted Design

Special Topics in Fashion

Field Studies - New York

Field Studies - Fashion Capitals

Work Experience

Field Studies

Recommended Electives:

| Leverrusiu | niows. | | |
|--------------|------------------------------------|-----|-----|
| FASH 8 | Introduction to Fashion | 3.0 | CSU |
| FASH 10 | Clothing Construction I | 3.0 | CSU |
| FASH 15 | Fashion and Identity | 3.0 | CSU |
| FASH 17 | Textiles | 3.0 | |
| FASH 25 | Fashion Computer -Assisted Drawing | 3.0 | |
| FASH 30 | Fashion Design | 3.0 | |
| | and Product Development I | | |
| Plus the fol | lowing courses: | | |
| FASH 9 | History of Costume and Design | 3.0 | CSU |
| FASH 12 | Clothing Construction II | 3.0 | |
| FASH 20 | Illustration for Fashion and | 3.0 | |
| | | | |

Costume Design Patternmaking I 3.0 Fashion Design by Draping 3.0 Patternmaking II 3.0 Fashion Patternmaking 3.0 by Computer Fashion Design 3.0 and Product Development II Fashion Design 3.0 and Product Development III

45.0

Fashion Merchandising - Level I **Consumer Science and Design Technologies** Certificate L0314 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

| Required co | urses: | | |
|-------------|----------------------------------|------|--------|
| FASH 8 | Introduction to Fashion | 3.0 | CSU |
| FASH 10 | Clothing Construction I | 3.0 | CSU |
| FASH 15 | Fashion and Identity | 3.0 | CSU |
| FASH 17 | Textiles | 3.0 | CSU,UC |
| FASH 25 | Fashion Computer-Assisted | 3.0 | |
| | Drawing | | |
| FASH 30 | Fashion Design | 3.0 | |
| | and Product Development I | | |
| | Total Units | 18.0 | |
| Recommen | ded Electives: | | |
| FASH 81 | Work Experience in Fashion | | |
| FASH 90 | Field Studies | | |
| FASH 91 | ASH 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 coursework (18 units) as follows: **Requirements for the Certificate Required courses:** Level I as follows: FASH 8 Introduction to Fashion 3.0 CSU FASH 10 Clothing Construction I 3.0 CSU FASH 15 Fashion and Identity 3.0 CSU

Textiles FASH 17 3.0 CSU,UC FASH 25 Fashion Computer-Assisted 3.0 Drawing FASH 30 Fashion Design 3.0 and Product Development I

CSU CSU

CSU

CSU

CSU

CSU

| Plus the fo | llowing courses: | |
|---------------|--|------|
| Level II as f | follows: | |
| FASH 9 | History of Costume and Design | 3.0 |
| FASH 62 | Retail Store Management and Merchandising | 3.0 |
| | <u>Oľ</u> Datail Stava Managamant | 2.0 |
| BUSS 50 | Retail Store Management and Merchandising | 3.0 |
| FASH 63 | Advertising and Promotion | 3.0 |
| | <u>or</u> | |
| BUSS 33 | Advertising and Promotion | 3.0 |
| FASH 66 | Visual Merchandising Display | 3.0 |
| | Total Units | 30.0 |
| Recommen | ded Electives: | |
| FASH 81 | Work Experience in Fashion | |
| FASH 90 | Field Studies | |
| FASH 91 | Field Studies - New York | |
| FASH 92 | Field Studies - Fashion Capitals | |

Fire Technology Fire Technology Department Certificate L2105

The Fire Science Certificate has been developed to offer pre-employment 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 Certificate Required courses:** FIRE 1 **Fire Protection Organization** 3.0 CSU FIRE 2 Fire Prevention Technology 3.0 CSU FIRE 3 Fire Protection Equipment 3.0 CSU

And Systems FIRE 4 Building Construction 3.0 CSU for Fire Protection FIRE 5 Fire Behavior and Combustion 3.0 CSU FIRE 6 Hazardous Materials/ICS 3.0 PLUS

Select two (2) courses from:

FIRE 7 Fire Fighting Tactics and Strategy 3.0 CSU Fire Company Organization FIRE 8 3.0 CSU and Management 3.0 CSU FIRE 9 Fire Hydraulics FIRE 10 3.0 CSU Arson and Fire Investigation Fire Apparatus and Equipment 3.0 CSU FIRE 11 4.5 CSU FIRE 12 Wildland Fire Control

| cate | | | | |
|-----------|---|---------|-----------|-------------------------|
| FIRE 86 | Basic Fire Academy | 14.5 | | HRM 53 |
| PE-F 53 | Physical Training | 2.5 | CSU | |
| | for the Basic Fire Academy | | | HRM 54 |
| | Total Units | 27.5 | - 38.0 | HRM 61 |
| Recomme | nded Electives: | | | HRM 62 |
| PE-F 50 | Physical Skills Preparation for a of Justice and Fire Technology | Adminis | tration | HRM 91 |
| PE-F 51 | Agility Testing Preparation for of Justice and Fire Technology | Admini | stration | NF 20 |
| PE-F 52 | Fitness and Conditioning for A | dminist | ration of | |
| | Justice, Fire Technology, and Fo | | | Hospi |
| | Dan ah Managanan an | | | Mana |
| | Ranch Management | [| | Consum Certifica |
| - | ural Sciences Department te L0102 | | | |
| | | | | This certif |
| | icate program is designed to giv | | | hospitalit restauran |
| | orse ranches and agriculture sales are applicable for degree requi | | | |
| | ments for the Certificate | | | Require Required |
| Required | | | | HRM 51 |
| AGAB 20 | Microcomputer Applications | 3.0 | CSU,UC | HRM 53 |
| | in Agriculture | | | |
| AGAG 59 | Work Experience in Agriculture | e 1.0 | - 4.0 | HRM 56 |
| AGAN 2 | Animal Nutrition | | CSU | |
| AGAN 94 | Animal Breeding | 3.0 | | HRM 64 |
| AGLI 16 | Horse Production | 4.0 | CSU,UC | HRM 66 |
| | <u>or</u> | | | HRM 70 |
| AGLI 18 | Horse Ranch Management | 4.0 | CSU | HRM 91 |
| AGLI 19 | Horse Hoof Care | 2.0 | CSU | |
| AGLI 96 | Animal Sanitation | 3.0 | CSU | |
| | and Disease Control | | | |
| AGLI 97 | Artificial Insemination | 2.0 | | Hospi |
| | of Livestock | | | Mana |
| | Total Units | 21.0 | - 24.0 | Consum Certifica |
| Hospit | tality: Catering | | | The Hospi |
| Consum | er Science and Design Tec | hnolo | gies | Certificate |
| Certifica | te L1395 | | | field as a |
| The Hospi | tality: Catering Certificate will pr | epare s | tudents | establishr |
| | g and banquet job opportunitie | | | Require |
| | industry. The program emphasi | | าน | Required |
| | food preparation, service and ca | tering | | HRM 51 |
| managem | ent. | | | HRM 52 |
| | ments for the Certificate | • | | HRM 53 |
| Required | | | | |
| HRM 51 | Introduction to Hospitality | | CSU | HRM 54 |
| HRM 52 | Food Safety and Sanitation | 1.5 | CSU | |
| | | | | |

| HRM 53 | Dining Room Service | 3.0 | CSU |
|-----------------------|---|----------|------|
| | Management | | |
| HRM 54 | Basic Cooking Techniques | 3.0 | CSU |
| HRM 61 | Menu Planning | 3.0 | |
| HRM 62 | Catering | 3.0 | CSU |
| HRM 91 | Work Experience | 1.0 | CSU |
| | in Restaurant/Hospitality | | |
| NF 20 | Principles of Foods with Lab | 3.0 | CSU |
| | Total Units | 20.5 | |
| Manag | tality: Hospitality gement - Level II | | |
| | er Science and Design Tec te L1325 | hnolog | jies |
| This certifi | icate prepares the holder to ente | er the | |
| | r field as a manager-trainee in a | | r |
| Require Required o | ments for the Certificate | 1 | |
| HRM 51 | Introduction to Hospitality | 3.0 | CSU |
| HRM 53 | Dining Room Service | 3.0 | CSU |
| | Management | | |
| HRM 56 | Management of Hospitality | 3.0 | CSU |
| | Personnel and Operations | 510 | |
| HRM 64 | Hospitality Financial Accountin | na I 3.0 | CSU |
| HRM 66 | Hospitality Law | 3.0 | |
| HRM 70 | Introduction to Lodging | 3.0 | |
| HRM 91 | Work Experience | 1.0 | CSU |
| | in Restaurant/Hospitality | | |
| | Total Units | 19.0 | |
| Manag Consum | tality: Restaurant gement - Level II er Science and Design Tec te L1319 | hnolog | jies |
| | | 1 | |
| Certificate | tality: Restaurant Management - prepares the holder to enter th manager-trainee in a in a food s nent. | e restau | |
| Require Required o | ments for the Certificate | ł | |
| HRM 51 | Introduction to Hospitality | 3.0 | CSU |
| HRM 52 | Food Safety and Sanitation | 1.5 | CSU |
| HRM 53 | Dining Room Service | 3.0 | CSU |
| | Management | | |
| HRM 54 | Basic Cooking Techniques | 3.0 | CSU |
| | | | |
| | | | |

| HRM 57Restaurant Cost CoHRM 61Menu PlanningNF 28Cultural and EthnicTotal Units | 3.0 CSU |
|--|---------|
|--|---------|

Infant/Toddler Development Child Development

Certificate T1318

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

Requirements for the Certificate *Required 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 Development | | CSU |
| | 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 | | |
| CHLD 73 | Infant/Toddler Care | 3.0 | CSU |
| | and Development | | |
| CHLD 85 | Infants At Risk | 3.0 | |
| PLUS | | | |
| Select four | (4) courses from: | | |
| CHLD 50 | Multicultural Education: | 3.0 | |
| | Anti-Bias Perspective | | |
| CHLD 61 | Language Arts & Art Media | 3.0 | |
| | for Young Children | | |
| CHLD 62 | Music and Motor Development | 3.0 | CSU |
| | for Young Children | | |
| CHLD 64 | Health, Safety and Nutrition | 3.0 | CSU |
| | of Young Children | | |
| CHLD 72 | Teacher, Parent | 3.0 | |
| | and Child Relationships | | |
| | Total Units | 30.0 | |
| | | | |

Programs of Study Leading to a Certificate ID 38 Internship in Interior Design 2.0 CSU **Interior Design Kitchen and Bath** (1 - 3 unit course, 2 units required)

Specialization **Consumer Science and Design Technologies** Certificate T0306

strengthen career perspectives. This certificate may aid in

the student's search for an intermediate position as an

Completion of the Interior Design: Level I coursework as

Interior Materials and Products

Introduction to Interior Design 3.0 CSU

3.0 CSU

3.0 CSU

3.0

3.0

3.0

3.0

3.0

3.0

3.0

3.0 CSU

3.0 CSU

3.0 CSU

3.0 CSU

3.0 CSU

2.0 CSU

3.0 CSU

50.0

ID 32

ID 34

ID 36

ID 37

assistant to a designer, library coordinator, or a

specialization in the field of interior design.

History of Furniture

and Decorative Arts

And completion of the Interior Design: Level II

Color and Design Theory I

Color and Design Theory II

Computer Aided Drawing

Codes and Specifications

for Interior Design I

for Interior Design

for Interior Design

Rapid Visualization

Building Systems

for Interior Design

for Interior Design II Professional Practices

for Interior Design

Business Practices

for Interior Design

Total Units

Internship in Interior Design

Interior Design Studio II

(1 - 3 unit course, 2 units required)

Interior Design Specialized Studio

Independent Studies in Interior Design

Computer Aided Drawing

Lighting Design

Interior Design Studio I

And completion of the required Interior Design: Level III

Space Planning

Design Drawing for Interior Design 3.0

Requirements for the Certificate

Required courses:

coursework as follows:

coursework as follows:

or

follows:

ID 10

ID 12

ID 14

ID 20

ID 21

ID 22

ID 23

ID 25

ID 26

ID 27

ID 29

ID 31

ID 32

ID 34

ID 36

ID 37

ID 38

ID 39

ID 50

ID 52

Elective courses:

3.0

33.0

The Kitchen and Bath Specialization coursework builds upon the Level III Certificate to provide students with specialized skills in the area of Kitchen and Bath Design and is accredited by the national Kitchen and Bath Association. Students will strengthen career perspectives and develop work to incorporate into a professional portfolio. This certificate may aid in the student's search for an intermediate position as an assistant to a Kitchen and Bath Designer. Students completing this certificate and meeting the eligibility requirements will quality to sit for the academic portion of the Certified Kitchen Designer (CKD) and Certified Bath Designed (CBD) upon graduation to earn the Associate Kitchen and Bath Designer (AKBD) designation.

Requirements for the Certificate Completion of the Interior Design: Level I coursework as

| | · · · · · · · · , · · · · · · | | |
|------------|---|-------|----------|
| follows: | | | |
| ID 10 | Introduction to Interior Design | 3.0 | CSU |
| ID 12 | Interior Materials and Products | 3.0 | CSU |
| ID 14 | History of Furniture and Decorative Arts | 3.0 | CSU |
| And comple | tion of the Interior Design: Level | 11 | |
| coursework | as follows: | | |
| ID 20 | Color and Design Theory I | 3.0 | |
| ID 21 | Color and Design Theory II | 3.0 | |
| ID 22 | Design Drawing | 3.0 | |
| | for Interior Design | | |
| ID 23 | Computer Aided Drawing | 3.0 | |
| | for Interior Design I | | |
| ID 25 | Codes and Specifications | 3.0 | |
| | for Interior Design | | |
| ID 26 | Space Planning for Interior Design | 3.0 | |
| ID 27 | Rapid Visualization | 3.0 | |
| ID 29 | Interior Design Studio | 3.0 | |
| And comple | tion of the required Interior Desi | gn: L | evel III |
| coursework | as follows: | | |
| ID 31 | Building Systems | 3.0 | CSU |
| | | | |

for Interior Design

Computer Aided Drawing

for Interior Design II

Professional Practices

for Interior Design

Business Practice

for Interior Design

3.0 CSU

3.0 CSU

3.0 CSU

3.0 CSU

Lighting Design

ID 39 Interior Design Studio II 3.0 CSU **Required courses for Kitchen and Bath Specialization:** ID 40 Kitchen and Bath Studio I 3.0 CSU 3.0 CSU ID 41 Kitchen and Bath Studio II Internship in Kitchen and Bath ID 48 2.0 (1-3 unit course, 2 units required) Total Units: 58.0 **Elective courses:**

ID 50 Interior Design Specialized Studio

ID 52 Independent Studies in Interior Design

Interior Landscaping **Agricultural Sciences Department** Certificate L0106

This certificate program 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. All courses are applicable for degree requirements.

Requirements for the Certificate Required courses:

| AGOR 1 | Horticultural Science | 3.0 | CSU |
|---------|---------------------------------------|------|--------|
| AGOR 13 | Landscape Design | 3.0 | CSU |
| AGOR 15 | Interior Landscaping | 3.0 | |
| AGOR 24 | Integrated Pest Management | 3.0 | CSU |
| AGOR 29 | Ornamental Plants - Herbaceous | 3.0 | CSU,UC |
| AGOR 32 | Landscaping and Nursery | 3.0 | CSU |
| | Management | | |
| AGOR 62 | Landscape Irrigation | 3.0 | CSU |
| | - Design and Installation | | |
| AGOR 64 | Landscape Irrigation | 3.0 | |
| | - Drip and Low Volume | | |
| | Total Units | 24.0 | |
| | | | |

Interior Design: Level II **Consumer Science and Design Technologies** Certificate T0304

The Interior Design: Level II Certificate builds upon the Level I coursework to provide students with intermediate skills that will lead to a career in interior design. There is a focus on design process including drawing and presentations skills, model-making, sketching, computer applications, the planning of space and studio design. Students will prepare professional portfolios to strengthen career perspectives. This certificate may aid in the student's search for an entry-level position as an assistant to a designer, library coordinator, or sales personnel for interior design products.

| | ements for the Certificate ed courses: | | |
|--------|---|---------|----------|
| Comple | tion of the Interior Design: Level I coursev | vork as | follows: |
| ID 10 | Introduction to Interior Design | 3.0 | CSU |
| ID 12 | Interior Materials and Products | 3.0 | CSU |
| ID 14 | History of Furniture and Decorative Arts | 3.0 | CSU |
| Requir | ed courses for Level II as follows: | | |
| ID 20 | Color and Design Theory I | 3.0 | |
| ID 21 | Color and Design Theory II | 3.0 | |
| ID 22 | Design Drawing for Interior Design | 3.0 | |
| ID 23 | Computer Aided Drawing for Interior Design I | 3.0 | |
| ID 25 | Codes and Specifications for Interior Design | 3.0 | |
| ID 26 | Space Planning for Interior Design | 3.0 | |
| ID 27 | Rapid Visualization | 3.0 | |

Total Units Elective courses:

ID 29

ID 50 Interior Design Specialized Studio ID 52 Interior Design Laboratory Studies

Interior Design Studio I

Interior Design: Level III

Consumer Science and Design Technologies Certificate T0305

The Interior Design: Level III Certificate builds upon the Level II coursework to provide students with advanced skills that will enhance their Interior Design careers. There is a focus on building systems, lighting, advanced computer applications, business practices and studio design. Students will prepare professional portfolios to

| | | | 1 | | | 1 | | | | | |
|---|---|--------------------------|--------------|------------------------------------|------------------|------------|------------------------------------|--------------------|--------------|------------------------------------|-----------------|
| Landse | ape and Park Mainte | nanco | AGOR 72 | Landscape Hardscape Application | | AGOR 39 | Turf Grass Production | 3.0 CSU | | nded Electives: | |
| | iral Sciences Department | enance | AGOR 73 | Landscaping Laws, Contracting | g 3.0 CSU | | and Management | | PE-F 50 | Physical Skills Preparation | |
| Certificat | • | | | And Estimating | | AGOR 50 | Soil Science and Management | | | for Law Enforcement and Fire S | Science |
| This certificate program is designed to give students basic | | | | Total Units | 33.0 | AGOR 51 | Tractor and Landscape | 3.0 CSU | PE-F 51 | Agility Testing Preparation | |
| | e maintenance of landscape of pa | | | | | | Equipment Operations | | | for Law Enforcement and Fire S | |
| | applicable for degree requireme | | | ape Equipment Tec | | AGOR 62 | Landscape Irrigation | 3.0 CSU | PE-F 52 | Fitness and Conditioning for La | iw Enforcement, |
| | ments for the Certificate | | | Iral Sciences Department | | | - Design and Installation | | | Fire Science and Forestry | |
| Required of | | | Certifica | te T0117 | | AGOR 63 | Landscape Irrigation Systems | 3.0 | SPAN 66 | Spanish for Fire and Police Pers | onnel |
| AGOR 1 | Horticultural Science | 3.0 CSU | | cate program is designed to giv | | 1000 (1 | Management | 2.0 | | | |
| AGOR 24 | Integrated Pest Management | 3.0 CSU | | ek employment in equipment r | | AGOR 64 | Landscape Irrigation | 3.0 | | ock Management | |
| AGOR 29 | Ornamental Plants - Herbaceou | | | ntal yards, and small equipmen | | 1000 74 | - Drip and Low Volume | 2.0.6611 | - | ural Sciences Department | |
| AGOR 30 | Ornamental Plants | 3.0 CSU,UC | | are applicable for degree requi | | AGOR 71 | Landscape Construction | 3.0 CSU | Certifica | te T0103 | |
| | - Trees and Woody Shrubs | 510 050,000 | | ments for the Certificate | 2 | | Fundamentals | | | cate program is designed to give | |
| AGOR 39 | Turf Grass Production | 3.0 CSU | Required c | | | | Total Units | 27.0 | | estock management for employm | |
| | and Management | | AGOR 1 | Horticultural Science | 3.0 CSU | | _ | | | ies on farms, ranches, and agricul | |
| AGOR 40 | Sports Turf Management | 3.0 | AGOR 51 | Tractor and Landscape | 3.0 CSU | | nforcement | | services. Al | I courses are applicable for degre | e requirements. |
| AGOR 51 | Tractor and Landscape | 3.0 CSU | | Equipment Operations | | | ervices Department | | | ments for the Certificate | |
| | Equipment Operations | | AGOR 52 | Hydraulics | 3.0 CSU | Certifica | te T2102 | | Required c | | |
| AGOR 62 | Landscape Irrigation | 3.0 CSU | AGOR 53 | Small Engine Repair I | 3.0 CSU | | am is intended to prepare stude | | AGAB 20 | Microcomputer Applications | 3.0 CSU,UC |
| | - Design and Installation | | AGOR 54 | Small Engine Repair II | 3.0 CSU | | nt following graduation. Studen | | | in Agriculture | |
| AGOR 63 | Landscape Irrigation Systems | 3.0 | AGOR 55 | Diesel Engine Repair | 3.0 CSU | | Degree (transfer program) shou | | AGAG 1 | Food Production, Land Use | 3.0 CSU,UC |
| | Management | | AGOR 56 | Engine Diagnostics | 3.0 CSU | a counselo | r or advisor to discuss transferat | oility of courses. | | and Politics - A Global Perspect | tive |
| AGOR 71 | Landscape Construction | 3.0 CSU | AGOR 57 | Power Train Repair | 3.0 | | ments for the Certificate | | AGAG 91 | Agricultural Calculations | 3.0 |
| | Fundamentals | | AGOR 71 | Landscape Construction | 3.0 CSU | Required o | ourses: | | AGAN 1 | Animal Science | 3.0 CSU,UC |
| | | 30.0 | | Fundamentals | | ADJU 1 | The Administration | 3.0 CSU,UC | AGAN 2 | Animal Nutrition | 3.0 CSU |
| | | | AGOR 72 | Landscape Hardscape | 3.0 CSU | | of Justice System | | AGAN 94 | Animal Breeding | 3.0 |
| Landso | ape Design and Con | struction | | Applications | | ADJU 2 | Principles and Procedures | 3.0 CSU | AGLI 14 | Swine Production | 3.0 CSU |
| | iral Sciences Department | Struction | AGOR 91 | Work Experience in Nursery | 1.0 - 4.0 | | of the Justice System | | AGLI 16 | Horse Production | 4.0 CSU,UC |
| Certificat | • | | | Operations | | ADJU 3 | Concepts of Criminal Law | 3.0 CSU,UC | AGLI 17 | Sheep Production | 3.0 CSU |
| | | atu danta hasia | | Total Units | 31.0 - 34.0 | ADJU 4 | Legal Aspects of Evidence | 3.0 CSU | AGLI 30 | Beef Production | 3.0 CSU |
| | cate program is designed to give ed in employment for a landscap | | | | | ADJU 5 | Community Relations | 3.0 CSU,UC | AGLI 34 | Livestock Judging and Selectio | n 2.0 CSU,UC |
| | are applicable for degree require | | Landso | ape Irrigation | | ADJU 68 | Administration | 3.0 | AGLI 96 | Animal Sanitation | 3.0 CSU |
| | | cilicito. | | Iral Sciences Department | | | of Justice Report Writing | | | and Disease Control | |
| Required of | ments for the Certificate | | Certifica | - | | PLUS | | | PLUS | | |
| AGOR 1 | Horticultural Science | 3.0 CSU | This certifi | cate program is designed to giv | e students basic | | r (4) courses from: | | | 6) units from: | |
| AGOR 13 | | 3.0 CSU 3.0 CSU | | gation design, repair, installatio | | ADJU 6 | Concepts of Enforcement Servi | ces 3.0 | AGOR 71 | Landscape Construction | 3.0 CSU |
| AGOR 15 AGOR 24 | Landscape Design Integrated Pest Management | 3.0 CSU 3.0 CSU | | ent, and troubleshooting. A stuc | | ADJU 13 | Concepts of Traffic Services | 3.0 | | Fundamentals | |
| AGOR 24 AGOR 29 | Ornamental Plants - Herbaceou | | employme | nt with a landscape contractor, | schools, parks, | ADJU 20 | Principles of Investigation | 3.0 CSU | BUSM 20 | Principles of Business | 3.0 CSU,UC |
| AGOR 29 AGOR 30 | Ornamental Plants - Herbaceou | 3.0 CSU,UC 3.0 CSU,UC | | All courses are applicable for d | | ADJU 38 | Narcotics Investigation | 3.0 | BUSM 66 | Small Business Management | 3.0 CSU |
| AUUK 30 | | 3.U (3U,UC | requireme | nts. | | ADJU 59 | Gangs and Corrections | 3.0 CSU | BUSS 35 | Professional Selling | 3.0 CSU |
| | - Trees and Woody Shrubs | | Require | ments for the Certificate | 2 | ADJU 74 | Vice Control | 3.0 | BUSS 36 | Principles of Marketing | 3.0 CSU |
| AGOR 50 | Soil Science and Management | 3.0 CSU,UC | Required o | | | CORS 30 | Ethnic Relations in Corrections | | 0000000 | Total Units | 42.0 |
| AGOR 51 | Tractor and Landscape | 3.0 CSU | AGOR 1 | Horticultural Science | 3.0 CSU | CORS 40 | Crime and Delinquency | 3.0 | | | 12.0 |
| | Equipment Operations | 2.0. ((1) | AGOR 13 | Landscape Design | 3.0 CSU | CORS 45 | The Violent Offender | 3.0 | | | |
| AGOR 62 | Landscape Irrigation | 3.0 CSU | | . 2 | | | Total Units | 30.0 | | | |
| 1000 70 | - Design and Installation | 2.0. (CII) | | | | | | 50.0 | | | |
| AGOR 71 | Landscape Construction | 3.0 CSU | | | | | | | | | |
| | Fundamentals | | | | | | | | | | |

PROGRAMS OF STUDY LEADING TO A CERTIFICATE

48 2011-12 Mt. San Antonio College Catalog

| | cturing Dept. | | | | Total Units | 25.0 |
|-----------------------------|---|--------|---------|---|---|------------------|
| Certificate | • • | | | | La aliala Tarakan di | |
| manipulat metal wor | ry purpose of this program is to er ive skills required to enter the fiel ker, machine operator, production al technician, or machinist. | d of r | nachine | - Psychia | Health Technology Itric Technician Technician Department T1279 | |
| Requirem | ents for the Certificate | | | | pletion of the required courses, | |
| Required of | courses: | | | | Technician will be awarded. In | |
| MFG 10 | Mathematics and Blueprint Reading for Manufacturing | 3.0 | | | ne student to take the California on for Psychiatric Technicians. | a State Board |
| MFG 11 | Manufacturing Processes I | 2.0 | CSU | | ents for the Certificate | |
| MFG 12 | Manufacturing Processes II | 2.0 | CSU | Required co | | |
| MFG 15 | AutoCAD 2D | 2.0 | | MENT 40 | Interviewing and Counseling | 3.0 |
| MFG 17 | 3-D CAD - Mechanical Modeling | 2.0 | | MENT 56 | Medical-Surgical Nursing | 9.0 |
| MFG 19 | Parametric Solid Modeling | 2.0 | | | for Psychiatric Technicians | |
| | for Manufacturing | | | MENT 56L | | 4.0 |
| MFG 38 | MasterCAM I | 2.0 | CSU | MENT 58D | Advanced Medical-Surgical | 4.0 |
| MFG 38B | MasterCAM II | 2.0 | CSU | | Nursing and Pharmacology for | |
| MFG 39 | SurfCAM I | 2.0 | CSU | MENT 58L | Advanced Medical-Surgical | 1.5 |
| MFG 39B | SurfCAM II | 2.0 | CSU | | Nursing for Psychiatric Technic | |
| MFG 85 | Manual Computerized | 2.0 | CSU | MENT 70 | Introduction to Psychiatric | 1.5 |
| | Numerical Control (CNC) Program | nming | g | | Technology | 2.0 |
| PLUS | | | | MENT 70L | Introduction to Psychiatric | 2.0 |
| Select two | (2) courses from: | | | | Technology Clinical Technician | |
| MFG 25 | Advanced Parametric Solid | 2.0 | | MENT 72 | Nursing Care of the | 7.0 |
| | Modeling for Manufacturing | | | | Developmentally Disabled Per | |
| MFG 27 | Autodesk Inventor | 2.0 | | MENT 72L | Nursing Care of the | 5.5 |
| WELD 40 | Introduction to Welding | 2.0 | CSU | | Developmentally Disabled Per | |
| | Total Units | 27.0 | | MENT 73L | Psychiatric Nursing | 5.5 |
| | | | | | for Psychiatric Technicians Clin | |
| Marketi | ng Management | | | MENT 73T | Psychiatric Nursing | 6.0 |
| | dministration Department | | | PSYC 1A | for Psychiatric Technicians Introduction to Psychology | 3.0 CSU,UC |
| Certificate | - | | | FJICIA | | J.0 (JU,0(|
| Requirem | ents for the Certificate | | | PSYC 1AH | <u>or</u> Introduction to Psychology - Hor | nors 3 0 CCILIIC |
| Required o | | | | | Total Units | 51.0 |
| BUSM 20 | Principles of Business | 3.0 | CSU,UC | | | 51.0 |
| BUSM 61 | Business Organization | 3.0 | CSU | Special Inf | | |
| | and Management | | | | in the program, students must | maintain a "C" |
| BUSS 35 | Professional Selling | 3.0 | CSU | or better g | rade in all courses. | |
| BUSS 36 | Principles of Marketing | 3.0 | CSU | | t will qualify to take the Califor | |
| BUSS 50 | Retail Store Management | 3.0 | | Examination upon completion of all the above courses. | | |
| | and Merchandising | | | Entrance Requirements: | | |
| BUSS 70 | International Marketing Concept | s 3.0 | | In addition to meeting Mt. San Antonio College's | | |
| BUSS 79 Work Experience 1.0 | | | | academic standards for admission, applicants must be in | | |

good standing and satisfy the following requirements:

BUSS 85

CISB 15

Manufacturing Technology

in Marketing Management

Aircraft Maintenance Tech

Special Issues in Marketing

Microcomputer Applications

2.0

4.0 CSU,UC

- 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.)
- Be 18 years of age.
- File a college application and be accepted as a student at Mt. San Antonio College.
- 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.
- 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.

- 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.

NOTE: Concerning Entrance Requirements 'e' and 'f', if the course(s) were taken and/or the dearee 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.

EXAMPLE: 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.
- Certain convictions may prevent a candidate from i) being licensed as a Psychiatric Technician.
- All students will 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.

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:

■ *Color vision:* ability to distinguish and identify colors (may be corrected with adaptive devices)

- <u>Distance vision</u>: 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
- Exposure to products containing latex

English Language Skills:

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

Microcomputer Productivity Software Computer Information Systems Department Certificate L0702

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: CISB 13 Microsoft Windows 2.0 CSU or CISN 21 Windows Operating System 4.0 CSU CISB 15 Microcomputer Applications 4.0 CSU,UC CISB 21 Microsoft Excel 4.0

| | Database Management - Microsoft Access | 4.0 | CSU |
|---|---|---|--------------------------------|
| CISW 11 | Internet Technologies | 4.0 | CSU |
| CISB 51 | Microsoft PowerPoint | 3.0 | |
| | Total Units | 21.0 | - 23.0 |
| Nursery | Management | | |
| Agricultur Certificate | al Sciences Department | | |
| This certifi | cate program is designed to give s | tude | nts hasic |
| | oduction and marketing of plants | | |
| goods in t | he wholesale and retail nursery in | dustr | |
| courses ar | e applicable for degree requireme | nts. | |
| Requirem | ents for the Certificate | | |
| Required of | | | |
| AGOR 1 | Horticultural Science | | CSU |
| AGOR 2 | Plant Propagation/Greenhouse Management | 3.0 | CSU |
| | | | |
| AGOR 24 | 5 | 3.0 | CSU |
| AGOR 24 AGOR 29 | Integrated Pest Management Ornamental Plants - Herbaceous | | |
| | Integrated Pest Management | | |
| AGOR 29 | Integrated Pest Management Ornamental Plants - Herbaceous | 3.0 | CSU,UC |
| AGOR 29 | Integrated Pest Management Ornamental Plants - Herbaceous Ornamental Plants | 3.0 3.0 | CSU,UC |
| AGOR 29 AGOR 30 | Integrated Pest Management Ornamental Plants - Herbaceous Ornamental Plants - Trees and Woody Shrubs | 3.0 3.0 | CSU,UC CSU,UC |
| AGOR 29 AGOR 30 | Integrated Pest Management Ornamental Plants - Herbaceous Ornamental Plants - Trees and Woody Shrubs Landscaping and Nursery | 3.0 3.0 3.0 | CSU,UC CSU,UC |
| AGOR 29 AGOR 30 AGOR 32 | Integrated Pest Management Ornamental Plants - Herbaceous Ornamental Plants - Trees and Woody Shrubs Landscaping and Nursery Management | 3.0 3.0 3.0 | CSU,UC CSU,UC CSU |
| AGOR 29 AGOR 30 AGOR 32 | Integrated Pest Management Ornamental Plants - Herbaceous Ornamental Plants - Trees and Woody Shrubs Landscaping and Nursery Management Turf Grass Production | 3.0 3.0 3.0 3.0 | CSU,UC CSU,UC CSU |
| AGOR 29 AGOR 30 AGOR 32 AGOR 39 | Integrated Pest Management Ornamental Plants - Herbaceous Ornamental Plants - Trees and Woody Shrubs Landscaping and Nursery Management Turf Grass Production and Management Landscape Irrigation - Design and Installation | 3.0 3.0 3.0 3.0 | CSU,UC CSU,UC CSU CSU |
| AGOR 29 AGOR 30 AGOR 32 AGOR 39 | Integrated Pest Management Ornamental Plants - Herbaceous Ornamental Plants - Trees and Woody Shrubs Landscaping and Nursery Management Turf Grass Production and Management Landscape Irrigation - Design and Installation Landscape Irrigation | 3.0 3.0 3.0 3.0 | CSU,UC CSU,UC CSU CSU |
| AGOR 29 AGOR 30 AGOR 32 AGOR 39 AGOR 62 | Integrated Pest Management Ornamental Plants - Herbaceous Ornamental Plants - Trees and Woody Shrubs Landscaping and Nursery Management Turf Grass Production and Management Landscape Irrigation - Design and Installation Landscape Irrigation - Drip and Low Volume | 3.03.03.03.03.03.0 | CSU,UC CSU,UC CSU CSU |

Agricultural Sciences Department Certificate T0186

This certificate program is designed to give students skills required for entry level positions in park management. Emphasis is placed on positions that are at the city and county level. All courses are applicable for degree requirements.

Requirements for the Certificate

Required courses:AGOR 1Horticultural Science3.0CSUAGOR 4Park Management3.0AGOR 5Park Facilities3.0AGOR 5Park Facilities3.0AGOR 24Integrated Pest Management3.0CSU

| AGOR 30 | Ornamental Plants | 3.0 | CSU,UC |
|---|--|--|---|
| | - Trees and Woody Shrubs | | |
| AGOR 39 | Turf Grass Production | 3.0 | CSU |
| | and Management | | |
| AGOR 51 | Tractor and Landscape | 3.0 | CSU |
| | Equipment Operations | | |
| AGOR 62 | Landscape Irrigation | 3.0 | CSU |
| | - Design and Installation | | |
| AGOR 63 | Landscape Irrigation | 3.0 | |
| | Systems Management | | |
| AGOR 75 | Urban Arboriculture | 3.0 | |
| | Total Units | 30.0 | |
| Pet Scie | nce | | |
| | al Sciences Department | | |
| Certificate | | | |
| | | ctudo | nts basio |
| | cate program is designed to give | | |
| skills in pr | oduction and marketing of pets a | t the | |
| skills in pr wholesale | oduction and marketing of pets a and retail level. All courses are a | t the | |
| skills in pr wholesale degree req | oduction and marketing of pets a and retail level. All courses are a juirements. | t the | |
| skills in pr wholesale degree rec | oduction and marketing of pets a and retail level. All courses are a | t the | |
| skills in pr wholesale degree req Requirem Required o | oduction and marketing of pets a and retail level. All courses are a juirements. ents for the Certificate <i>ourses:</i> | it the pplical | ole for |
| skills in pr wholesale degree req | oduction and marketing of pets a and retail level. All courses are a juirements. ents for the Certificate <i>ourses:</i> Microcomputer Applications | it the pplical | ole for |
| skills in pr wholesale degree req Requirem Required c | oduction and marketing of pets a and retail level. All courses are a juirements. ents for the Certificate <i>fourses:</i> Microcomputer Applications in Agriculture | t the pplical 3.0 | ole for CSU,UC |
| skills in pr wholesale degree req Requirem Required C AGAB 20 AGAN 1 | oduction and marketing of pets a and retail level. All courses are a juirements. ents for the Certificate <i>fourses:</i> Microcomputer Applications in Agriculture Animal Science | t the pplical 3.0 3.0 | csu,uc |
| skills in pr wholesale degree req Requirem Required c AGAB 20 AGAN 1 AGAN 2 | oduction and marketing of pets a and retail level. All courses are a juirements. ents for the Certificate <i>fourses:</i> Microcomputer Applications in Agriculture Animal Science Animal Nutrition | t the pplical 3.0 3.0 3.0 | CSU,UC CSU,UC CSU,UC CSU,UC |
| skills in pro wholesale degree req Requirem Required o AGAB 20 AGAN 1 AGAN 2 | oduction and marketing of pets a and retail level. All courses are a juirements. ents for the Certificate <i>ourses:</i> Microcomputer Applications in Agriculture Animal Science Animal Nutrition Animal Handling and Restraint | t the pplical 3.0 3.0 3.0 | CSU,UC CSU,UC CSU,UC CSU,UC |
| skills in pr wholesale degree req Requirem Required C AGAB 20 AGAN 1 | oduction and marketing of pets a and retail level. All courses are a juirements. ents for the Certificate <i>fourses:</i> Microcomputer Applications in Agriculture Animal Science Animal Nutrition | t the pplical 3.0 3.0 3.0 | CSU,UC CSU,UC CSU,UC CSU,UC |
| skills in pr wholesale degree req Requirem Required o AGAB 20 AGAN 1 AGAN 2 AGAN 51 AGAN 94 | oduction and marketing of pets a and retail level. All courses are a juirements. ents for the Certificate <i>ourses:</i> Microcomputer Applications in Agriculture Animal Science Animal Nutrition Animal Handling and Restraint | t the pplical 3.0 3.0 3.0 3.0 3.0 3.0 | CSU,UC CSU,UC CSU,UC CSU,UC |
| skills in pr wholesale degree req Requirem Required o AGAB 20 AGAN 1 AGAN 2 AGAN 51 | oduction and marketing of pets a and retail level. All courses are a juirements. ents for the Certificate <i>ourses:</i> Microcomputer Applications in Agriculture Animal Science Animal Nutrition Animal Handling and Restraint Animal Breeding | t the pplical 3.0 3.0 3.0 3.0 3.0 3.0 | CSU,UC CSU,UC CSU,UC CSU,UC CSU |
| skills in pr wholesale degree req Requirem AGAB 20 AGAN 1 AGAN 2 AGAN 51 AGAN 94 AGLI 96 | oduction and marketing of pets a and retail level. All courses are a juirements. ents for the Certificate <i>jourses:</i> Microcomputer Applications in Agriculture Animal Science Animal Nutrition Animal Handling and Restraint Animal Breeding Animal Sanitation | t the pplical 3.0 3.0 3.0 3.0 3.0 3.0 | CSU,UC CSU,UC CSU,UC CSU,UC CSU |
| skills in pr wholesale degree req Requirem Required c AGAB 20 AGAN 1 AGAN 2 AGAN 51 AGAN 94 AGLI 96 AGPE 70 | oduction and marketing of pets a and retail level. All courses are a juirements. ents for the Certificate <i>jourses:</i> Microcomputer Applications in Agriculture Animal Science Animal Nutrition Animal Handling and Restraint Animal Breeding Animal Sanitation and Disease Control | t the pplical 3.0 3.0 3.0 3.0 3.0 3.0 3.0 | CSU,UC CSU,UC CSU,UC CSU,UC CSU |
| skills in pr wholesale degree req Requirem Required o AGAB 20 AGAN 1 AGAN 2 AGAN 51 AGAN 94 | oduction and marketing of pets a and retail level. All courses are a juirements. ents for the Certificate iourses: Microcomputer Applications in Agriculture Animal Science Animal Nutrition Animal Handling and Restraint Animal Breeding Animal Sanitation and Disease Control Pet Shop Management | 1 the pplical 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 | CSU,UC CSU,UC CSU,UC CSU,UC CSU |
| skills in pr wholesale degree req Requirem Required of AGAB 20 AGAN 1 AGAN 2 AGAN 2 AGAN 51 AGAN 51 AGAN 94 AGLI 96 AGPE 70 AGPE 71 AGPE 72 | oduction and marketing of pets a and retail level. All courses are a juirements. ents for the Certificate ourses: Microcomputer Applications in Agriculture Animal Science Animal Nutrition Animal Handling and Restraint Animal Breeding Animal Sanitation and Disease Control Pet Shop Management Canine Management | 1 the pplical 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 | CSU,UC CSU,UC CSU,UC CSU,UC CSU |
| skills in pr wholesale degree req Requirem Required of AGAB 20 AGAN 1 AGAN 2 AGAN 2 AGAN 51 AGAN 51 AGAN 94 AGLI 96 AGPE 70 AGPE 71 AGPE 72 | oduction and marketing of pets a and retail level. All courses are a juirements. ents for the Certificate ourses: Microcomputer Applications in Agriculture Animal Science Animal Nutrition Animal Handling and Restraint Animal Breeding Animal Sanitation and Disease Control Pet Shop Management Canine Management Feline Management | 1 the pplical 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 | CSU,UC CSU,UC CSU,UC CSU,UC CSU |
| skills in pr wholesale degree req Requirem Required o AGAB 20 AGAN 1 AGAN 2 AGAN 51 AGAN 51 AGAN 94 AGLI 96 AGPE 70 AGPE 71 AGPE 72 AGPE 73 | oduction and marketing of pets a and retail level. All courses are a juirements. ents for the Certificate ourses: Microcomputer Applications in Agriculture Animal Science Animal Nutrition Animal Handling and Restraint Animal Breeding Animal Sanitation and Disease Control Pet Shop Management Canine Management Feline Management Tropical and Coldwater Fish Management | 1 the pplical 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 | CSU,UC CSU,UC CSU,UC CSU,UC CSU |
| skills in pr wholesale degree req Requirem Required o AGAB 20 AGAN 1 AGAN 2 AGAN 51 AGAN 51 AGAN 94 AGLI 96 AGPE 70 AGPE 71 | oduction and marketing of pets a and retail level. All courses are a juirements. ents for the Certificate ourses: Microcomputer Applications in Agriculture Animal Science Animal Nutrition Animal Handling and Restraint Animal Breeding Animal Sanitation and Disease Control Pet Shop Management Canine Management Feline Management Tropical and Coldwater Fish Management Reptile Management | 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 | CSU,UC CSU,UC CSU,UC CSU,UC CSU |
| skills in pr wholesale degree rec Requirem Required AGAB 20 AGAN 1 AGAN 2 AGAN 2 AGAN 51 AGAN 94 AGLI 96 AGPE 70 AGPE 71 AGPE 73 AGPE 74 AGPE 74 AGPE 76 | oduction and marketing of pets a and retail level. All courses are a juirements. ents for the Certificate ourses: Microcomputer Applications in Agriculture Animal Science Animal Nutrition Animal Handling and Restraint Animal Breeding Animal Sanitation and Disease Control Pet Shop Management Canine Management Feline Management Feline Management Reptile Management Aviculture - Cage and Aviary Bird | 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 | csu,uc csu,uc csu,uc csu,uc csu csu csu |
| skills in pr wholesale degree req Requirem Required o AGAB 20 AGAN 1 AGAN 2 AGAN 51 AGAN 51 AGAN 51 AGAN 94 AGLI 96 AGPE 70 AGPE 72 AGPE 73 AGPE 74 | oduction and marketing of pets a and retail level. All courses are a juirements. ents for the Certificate ourses: Microcomputer Applications in Agriculture Animal Science Animal Nutrition Animal Handling and Restraint Animal Breeding Animal Sanitation and Disease Control Pet Shop Management Canine Management Feline Management Tropical and Coldwater Fish Management Reptile Management | 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 | CSU,UC CSU,UC CSU,UC CSU,UC CSU |

| SU,UC | Photog | ranhv | | | | | | |
|---------|--|--|---------|--------|--|--|--|--|
| | | al and Entertainment Arts | | | | | | |
| SU | Certificate L1002 | | | | | | | |
| SU | This certificate program is designed to prepare students | | | | | | | |
| | | specific skills needed for employ | | | | | | |
| SU | | hy, art, cinema/animation, comm arts, graphics, and journalism. | nunical | lions, | | | | |
| | | ents for the Certificate | | | | | | |
| | Required a | | | | | | | |
| | GRAP 10 | Photoshop Imagery | 3.0 | | | | | |
| | PHOT 10 | Basic Digital | 3.0 | CSU,UC | | | | |
| | | and Film Photography | | | | | | |
| | PHOT 11 | Professional Photography | 4.0 | | | | | |
| | PHOT 12 | Photographic Alternatives | 3.0 | CSU,UC | | | | |
| | | <u>or</u> | | | | | | |
| . · | PHOT 21 | Exploring Color Photography | 3.0 | | | | | |
| s basic | PHOT 14 | Commercial Lighting | 3.0 | | | | | |
| e for | PHOT 16 | Fashion Photography | 3.0 | | | | | |
| 101 | | <u>or</u> | | | | | | |
| | PHOT 18 | Portraiture | 3.0 | | | | | |
| | | and Wedding Photography | | | | | | |
| SU,UC | PHOT 17 | Photocommunication | 3.0 | | | | | |
| | PHOT 20 | Color Photography | 3.0 | | | | | |
| SU,UC | PHOT 28 | Photography Portfolio | 3.0 | | | | | |
| SU,UC | | Development | | | | | | |
| SU | PHOT 29 | Studio Business Practices | 3.0 | | | | | |
| | | for Commercial Artists | | | | | | |
| SU | PHOT 30 | Commercial | 3.0 | | | | | |
| | | and Illustrative Photography | | | | | | |
| | | Total Units | 34.0 | | | | | |
| | Recomme | nded Electives: | | | | | | |
| | AHIS 1 | Understanding the Visual Arts | | | | | | |
| | | <u>or</u> | | | | | | |
| | ARTB 1 | Understanding the Visual Arts | | | | | | |
| | PHOT 1 | Laboratory Studies: | | | | | | |
| | | Black and White Photography | | | | | | |
| SU | PHOT 15 | History of Photography | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

Programming In C++ **Computer Information Systems Department** Certificate L0794

This certificate program is intended to prepare students to use the C++ programming language in a business environment.

Requirements for the Certificate Required courses:

| CISB 11 | Computer Information Systems | 3.5 | CSU,UC | st |
|---------|------------------------------|------|--------|----------|
| CISD 11 | Database Management | 4.0 | CSU | 0 |
| | - Microsoft Access | | | b sł |
| CISM 11 | Systems Analysis and Design | 3.5 | CSU,UC | pi pi |
| CISN 21 | Windows Operating System | 4.0 | CSU | 6 |
| CISP 31 | Programming in C++ | 4.0 | CSU,UC | e |
| CISP 34 | Advanced C++ Programming | 4.0 | CSU,UC | st |
| | Total Units | 23.0 | | w |
| | | | | fr |

Programming In Visual Basic

Computer Information Systems Department Certificate L0789

This certificate is intended to prepare students to work in Visual Basic which is used to develop graphical user interfaces and client/server applications.

Requirements for the Certificate Required courses:

| CISB 11 | Computer Information Systems | 3.5 | CSU,UC |
|---------|-------------------------------------|------|--------|
| CISD 11 | Database Management | 4.0 | CSU |
| | - Microsoft Access | | |
| CISM 11 | Systems Analysis and Design | 3.5 | CSU,UC |
| CISP 11 | Programming in Visual Basic | 4.0 | CSU,UC |
| CISP 14 | Advanced Visual Basic | 4.0 | CSU,UC |
| | Programming | | |
| | Total Units | 19.0 | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

Radio Broadcasting: Behind-the-Scenes Commercial and Entertainment Arts Certificate T0606

The Behind-the-Scenes Radio Broadcasting Certificate is designed to prepare students for careers in the nonperformance aspects of the broadcasting industry. The program offers a balanced catalog of classes preparing tudents for both studio production and the business aspects of a commercial radio station, Internet, and satellite proadcast facilities. Emphasis is placed on solid production kills, creative applications, copywriting, studio producing, promotions, marketing and understanding Federal Communication Commission rules and laws to meet employment opportunities for radio stations, production studios, syndication companies and audio studios. Students will demonstrate an understanding of the production process from the conceptualization phase to the creation of a marketable quality product. Students will demonstrate acquired skills through the creation of various demo-reel pieces for presentation in a professional employment setting. Equipment and software used are industry standard and course content is driven by industry needs. Opportunities available after completion of this program include, but are not limited to, production for radio, commercial voice-overs and syndicated shows, commercial copywriting, station promotions and marketing and show producer.

Requirements for the Certificate Required courses: R-TV 01 Introduction to Broadcasting R-TV 09 Broadcast Sales and Promotion R-TV 10 **Radio Management** and Programming R-T R-T R-T\ R-T R-T

| 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 96 | Campus Radio Station Lab | 1.0 - 2.0 |
| R-TV 97A | Radio/Entertainment | 1.0 |
| | Industry Seminar | |
| | <u>and</u> | |
| R-TV 97B | Radio/Entertainment | 1.0 |
| | Industry Internship | |
| PLUS | | |
| Select six (6) |) units from: | |
| R-TV 12 | Commercial Copywriting | 3.0 |
| R-TV 26 | Legal Issues in Entertainment Law | 3.0 |
| R-TV 31 | History of Radio DJ's | 3.0 |
| R-TV 32 | R-TV Internet Applications | 3.0 |

| | | Total Units | 27.0 - 28.0 |
|---|---------|-------------------------------|-------------|
| | | and Procedures | |
| - | R-TV 33 | Radio Show Producer Technique | s 3.0 |

Radio Broadcasting: On-the-Air **Commercial and Entertainment Arts** Certificate T0605

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-Overs | s 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 | |
| R-TV 96 | Campus Radio Station Lab | 1.0 - | 2.0 |
| R-TV 97A | Radio/Entertainment | 1.0 | |
| | Industry Seminar | | |
| R-TV 97B | Radio/Entertainment | 1.0 | |
| | Industry Internship | | |
| PLUS | | | |

Select six (6) units from:

3.0 CSU

3.0

3.0

| | Total Units | 30.0 - 31.0 |
|----------|-----------------------------------|-------------|
| | and Procedures | |
| R-TV 33 | Radio Show Producer Technique | s 3.0 |
| R-TV 32 | R-TV Internet Applications | 3.0 |
| R-TV 31 | History of Radio DJ's | 3.0 |
| R-TV 26 | Legal Issues in Entertainment La | w3.0 |
| R-TV 17 | Internet Radio and Podcasting | 3.0 |
| R-TV 12 | Commercial Copywriting | 3.0 |
| | and Programming | |
| R-TV 10 | Radio Management | 3.0 |
| R-TV 09 | Broadcast Sales and Promotion | 3.0 |
| R-TV 07B | Advanced Commercial Voice-Ove | ers3.0 |
| R-TV 06 | Broadcast Traffic Reporting | 1.5 |
| R-TV 04 | Broadcast News Field Reporting | 3.0 |
| R-TV 03 | Sportscasting and Reporting | 1.5 |
| | | |

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 <u>or</u> | 3.0 | | | | | |
| BUSR 52D | Real Estate Practice Work Experience | 3.0 | | | | | |
| BUSR 53 | Real Estate Finance | 3.0 | | | | | |
| BUSR 81 | Appraisal: Principles and Procedures | 3.5 | | | | | |
| 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 | | | | | |
| BUSR 76 | Escrow Procedures I | 3.0 | | | | | |
| | Total Units | 18.5 | | | | | |

| | | | 1 | | | | | | | | |
|-------------------------------|---|----------------|------------------------|---|----------------------------|-------------------------|---|----------------------------|--|---|-----------------------|
| | s tate Appraisal Administration Departme te L0513 | ent | CHLD 6 CHLD 10 | Survey of Child Development Curriculum Child Growth and Development or | 3.0 CSU 3.0 CSU,UC | Sign Lang fluency de | ted by the completion of SIGN 7 Jage 4, (or the equivalent skill) monstrated by the completion c ertification: There are many spec | and English of ENGL 1A. | Agricult | Turf Management ural Sciences Department te L0112 | |
| The certific | ate in Real Estate Appraisal me | ets all of the | CHLD 10H | <u>or</u> Child Growth and Development | 3.0 CSU.UC | | National Certification: There are many specialties within the field of Sign Language Interpreting, but the focus of | | This certificate program is designed to provide skills | | |
| educationa | I requirements for Appraiser Tra | inee, Licensed | | - Honors | | this progra | am is on preparing the interpret | er generalist. | required for | or students interested in employn | nent at golf |
| | and depending on the choice of | | CHLD 50 | Multicultural Education: | 3.0 | | requiring some type of certificat | | | ce tracks, athletic fields and stad | |
| | educational requirements for Cer | τιπεά | | Anti-Bias Perspective | | | mon in California, there are still | <i>,,</i> | | use turf areas. All courses are ap | plicable for |
| Residential | | | CHLD 51 | Early Literacy | 3.0 | | ties for the precertified interpret | | | juirements. | |
| | ments for the Certificate | | | in Child Development | | | g the certificate in Sign Languag | | | ments for the Certificate | |
| Required co BUSR 81 | | 3.5 | CHLD 62 | Music and Motor Development | 3.0 CSU | | nake one a "Certified Interpreter of this program are encouraged | | Required o AGOR 1 | <i>courses:</i> Horticultural Science | 3.0 CSU |
| ן פ אַכּחַת | Appraisal: Principles and Procedures | ر.ر | | for Young Children | | | nterpreting Certification (NIC) th | | AGOR 1 AGOR 24 | Integrated Pest Management | 3.0 CSU 3.0 CSU |
| BUSR 82 | Uniform Standards | 1.0 | CHLD 64 | Health, Safety and Nutrition | 3.0 CSU | | f Interpreters for the Deaf (RID) | | AGOR 24 AGOR 30 | Ornamental Plants | 3.0 CSU 3.0 CSU,UC |
| 02 וובטע | of Professional Appraisal Practi | | | of Young Children | | | ments for the Certificate | | | - Trees and Woody Shrubs | J.U CJU,UC |
| BUSR 83 | Residential Appraisal | 3.5 | CHLD 74 | Program Planning | 3.0 | Required | | | AGOR 39 | Turf Grass Production | 3.0 CSU |
| BUSR 83 BUSR 84 | Residential Appraisal: | 3.5 2.5 | | for the School Age Child | | SIGN 105 | American Sign Language 5 | 4.0 | 7000 33 | and Management | 2.0 (20 |
| 104 | Case Studies | 2.3 | PLUS Soloct and | (1) course from | | SIGN 108 | Fingerspelling | 2.0 | AGOR 40 | Sports Turf Management | 3.0 |
| PLUS | Luse sedures | | | (1) course from: Writing Effective Sentences | 1.0 | SIGN 201 | Deaf Perspectives | 3.0 | AGOR 50 | Soil Science and Management | 3.0 CSU,UC |
| | e (3) courses from: | | ENGL 64 ENGL 65 | Writing Effective Sentences Grammar Review | 1.0 1.0 | SIGN 202 | American Deaf Culture | 3.0 CSU,UC | AGOR 50 AGOR 51 | Tractor and Landscape | 3.0 CSU,UC 3.0 CSU |
| BUSA 11 | Fundamentals of Accounting | 3.0 | LIT 40 | Grammar Review Children's Literature | 1.0 3.0 CSU | SIGN 210 | American Sign Language | 3.0 CSU,UC | | Equipment Operations | |
| BUSR 50 | Real Estate Principles | 3.0 CSU | | | 2.0 (20 | | Structure | | AGOR 62 | Landscape Irrigation | 3.0 CSU |
| BUSR 51 | Legal Aspects of Real Estate | 3.0 | PLUS Soloct three | a (7) units from | | SIGN 220 | Translation: American Sign | 3.0 CSU | - 2 VL | - Design and Installation | |
| BUSR 53 | Real Estate Finance | 3.0 | | e (3) units from: Math Skills Davians | 2.0 | | Language/English | | AGOR 63 | Landscape Irrigation | 3.0 |
| BUSR 55 | Real Estate Economics | 3.0 | LERN 49 | Math Skills Review | 3.0 | SIGN 223 | Principles of Interpreting | 3.0 CSU | | Systems Management | |
| BUSR 57 | Income Tax Aspects | 3.0 | MATH 50 | Pre-Algebra Total Units | 3.0 | SIGN 225 | Ethical Decision Making | 2.0 | | Total Units | 27.0 |
| | of Real Estate Investments | | | וטנמו טווונג | 31.0 - 33.0 | | for Interpreters | | | | |
| BUSR 59 | Real Estate Property | 3.0 | Ciarra I | | ~ | SIGN 227 | Cognitive Processing | 4.0 | Televi | sion Production | |
| | Management | | - | anguage/Interpreting | 9 | | for Interpreters | | | cial and Entertainment Art | ts |
| BUSR 76 | Escrow Procedures I | 3.0 | Sign Lan Certificat | guage Department | | SIGN 231 | Interpreting | 4.0 | | te L0602 | |
| CISB 15 | Microcomputer Applications | 4.0 CSU,UC | | | inter D | SIGN 232 | Advanced Interpreting | 4.0 | Students v | vill gain experience in film-style | production |
| INSP 70 | Elements of Construction | 3.0 CSU | | n Antonio College Interpreter Trai | | SIGN 239 | Practicum | 1.0 | | d studio production. This course of | |
| | Total Units | 22.5 - 23.5 | l anguage | I to prepare individuals for caree Interpreters. Interpreters are need | is as SIGN Ted wherever | PLUS | | | qualifies t | he student for a certificate in tele | evision |
| | | | | ation happens between the hear | | | ee (3) courses from: | | | n, and is designed to prepare a st | |
| | Age Child - Speciali | zation | community | y and the Deaf and hard-of-heari | ing | SIGN 99 | Special Projects | 2.0 | | I job in the industry in a variety of | |
| | velopment | | community | y. There are an endless number o | f settings in | | in Sign Language/Interpreting | | | ot only skills used in production, | but also |
| Certificat | | | which this | communication takes place. Inte | rpreters are | SIGN 238 | Oral Transliteration | 3.0 | | tion, and editing. | |
| | Age Child Specialization Certific | | | by school districts, cruiseship con | | SIGN 240 | Vocabulary Building | 2.0 CSU | | ments for the Certificate | |
| | ides the holder with specialized | | | ns, government agencies, hospita | | | for Interpreters | | Required o | | 20 (0) |
| | ith children of that age. This cer | | | s, and a vast number of other orgen businesses. | jaiiizations | SIGN 250 | Interpreting with Classifiers | 1.5 | R-TV 01 | Introduction to Broadcasting | 3.0 CSU 3.0 |
| | Title 5 Master Teacher - School . el (with 16 units of general edu | | | | | SIGN 260 | Video Interpreting | 1.5 | R-TV 14 p tv 101 | Media Aesthetics | |
| | | | | reparation: Preparation for the pr | | SL 2 | Linked Service Learning | 1.0 CSU | R-TV 19A R-TV 19B | Beginning Television Production Advanced Television Production | |
| - | ments for the Certificate | | includes fli | uency in American Sign Languag | e | | Total Units | 40.0 - 43.0 | | | |
| Required co CHLD 1 | ourses: Child, Family and Community | 3.0 CSU,UC | | | | | | | R-TV 22 R-TV 100 | Editing for Film and Television Work Experience in Film and TV | 3.0 |
| | | 3.0 (SU,UC | | | | | | | M-1V 100 | work experience in Film and TV | 2.0 |

 CHLD 1
 Child, Family and Community
 3.0
 CSU,UC

 CHLD 5
 Principles/Practices in Child
 3.0
 CSU

 Development Programs
 State
 State
 State

PLUS

Select nine (9) units from:

| R-TV 18 | Writing for Television/Film | 3.0 | CSU |
|---------|-------------------------------------|------|-----|
| R-TV 20 | Television News Production | 3.0 | |
| R-TV 21 | Remote Television Production | 3.0 | |
| | and Engineering | | |
| R-TV 23 | Reality Show Production | 3.0 | |
| | Total Units | 26.0 | |

Recommended Electives:

| ANIM 115 | Storyboarding |
|----------|-------------------------------------|
| R-TV 26 | Current Issues in Entertainment Law |
| THTR 17 | Acting for the Camera |
| PHOT 10 | Black and White Photography |

Tree Care and Maintenance Agricultural Sciences Department Certificate L0111

This certificate program is designed to give students basic skills in the repair and maintenance of trees. All courses are applicable for degree requirements.

| Requirements for the Certificate | | | | | | | |
|----------------------------------|-----------------------------|------|--------|--|--|--|--|
| Required c | Required courses: | | | | | | |
| AGOR 1 | Horticultural Science | 3.0 | CSU | | | | |
| AGOR 24 | Integrated Pest Management | 3.0 | CSU | | | | |
| AGOR 30 | Ornamental Plants | 3.0 | CSU,UC | | | | |
| | - Trees and Woody Shrubs | | | | | | |
| AGOR 32 | Landscaping and Nursery | 3.0 | CSU | | | | |
| | Management | | | | | | |
| 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) qualify 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 | 3.0 | |
| | - Certified Tester | | |
| WATR 64 | Cross Connection Control | 3.0 | |
| | - Certified Specialist | | |
| WATR 65 | Water Hydraulics | 3.0 | |
| | and Instrumentation | | |
| | Total Units | 18.0 | |
| | | | |

Web Design

| Commercial and Entertainment |
|-------------------------------------|
| Arts Department |
| Certificate L0618 |

This program is designed to provide students with a combination of design and technical skills necessary for entry-level employment as a Web page designer.

Requirements for the Certificate

| 3.0 |
|------|
| |
| 3.0 |
| 3.0 |
| 3.0 |
| 3.0 |
| 3.0 |
| 3.0 |
| 3.0 |
| 1.0 |
| |
| 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 | Construction Fabrication | 3.0 | |
| | and Welding | | |
| WELD 81 | Pipe and Tube Welding | 3.0 | |
| | Total Units | 27.0 | |
| | | | |

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

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 *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 | Construction Fabrication | 3.0 | | | | |
| | and 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.

| | | | 1 | | | 1 | | | 1 | | |
|---------------------|---|----------------|---------------------|---|----------------|-------------|---|--------------|--------------------|--|--------------|
| | Gas Tungsten Arc Weldin | g | Welding Arc Weld | - Semiautomatic | | | SKILLS CERTIFICATES | | BUSA 81 | <u>or</u> Work Experience in Accounting | |
| | Technologies | | | oning, Water | | | ing - Bookkeeping | | BUSO 5 | Business English | 3.0 |
| Certificate | Certificate T0932 | | & Welding | Technologies | | | and Management Department | | BUSO 25 | <u>or</u> Business Communications | 3.0 CSU |
| | Prepares students for entry-level employment as a | | Certificate | | | Certificate | | | | llowing courses: | 5.0 (50 |
| | lder with additional skills deve | | | udents for entry-level employr | | | nting - Bookkeeping certificate pr | | BUSA 70 | Payroll and Tax Accounting | 3.0 |
| | as tungsten ARC welding. Cours r industry licensing with empha | | | elder with additional skills dev | | | th the basic skills and knowledge ions within the clerical/ accountin | | BUSA 70 BUSA 75 | Using Microcomputers | 3.0 1.0 |
| | ies required for certification in a | | | emiautomatic ARC welding. Co udents for industry licensing w | | | luties performed in this field are | | DUSKTS | in Financial Accounting | 1.0 |
| | steel and selected exotic metals | | | ies required for certification in | | | ns to journals/ledgers, accounts re | | | <u>or</u> | |
| skills in gas | s tungsten ARC welding. | | welding an | d specialty skills in semiautom | | | ayable, inventory tracking/report | | BUSA 81 | Work Experience in Accounting | 1.0 |
| Requireme | ents for the Certificate | | welding. | | | | on, expense reporting, and accou | nt analysis. | BUSA 76 | Using Microcomputers | 1.0 |
| Required co | | | | ents for the Certificate | | | ents for the Certificate | | | in Managerial Accounting | |
| WELD 40 | Introduction to Welding | 2.0 CSU | Required co | | | Required o | | | | <u>or</u> | |
| WELD 50 | Oxyacetylene Welding | 2.0 | WELD 40 | Introduction to Welding | 2.0 CSU | BUSA 7 | Principles of Accounting - Financial | 5.0 CSU,UC | BUSA 81 | Work Experience in Accounting | |
| WELD 51 WELD 53A | Basic Electric Arc Welding Welding Metallurgy | 2.0 3.0 CSU | WELD 50 WELD 51 | Oxyacetylene Welding Basic Electric Arc Welding | 2.0 2.0 | | - Filialicial <u>Oľ</u> | | | Total Units | 14.0 - 15.0 |
| WELD 55A | Print Reading | 3.0 C30 | | Welding Metallurgy | 2.0 3.0 CSU | BUSA 72 | <u>Bookkeeping</u> - Accounting | 5.0 | | | |
| WILLD OU | and Computations for Welders | | WELD 55K | Print Reading | 3.0 | BUSA 53 | Ten-Key Calculations | 2.0 | | trative Assistant - Level I | |
| WELD 70A | Beginning Arc Welding | 3.0 | | and Computations for Welder | | | <u>or</u> | | Certificate | Information Systems Departmen | τ |
| WELD 70B | Intermediate Arc Welding | 3.0 | WELD 70A | Beginning Arc Welding | 3.0 | BUSA 81 | Work Experience in Accounting | 1.0 | | Certificate prepares students for | contru loval |
| WELD 70C | Certification for Welders | 3.0 | | Intermediate Arc Welding | 3.0 | BUSO 5 | Business English | 3.0 | | sitions where keyboarding is the | |
| WELD 80 | Construction Fabrication | 3.0 | WELD 70C | Certification for Welders | 3.0 | | <u>or</u> | | function. | scions where keyboarding is the | printary |
| | and Welding | | WELD 80 | Construction Fabrication | 3.0 | BUSO 25 | Business Communications | 3.0 CSU | Requirem | ents for the Certificate | |
| WELD 81 | Pipe and Tube Welding | 3.0 | | and Welding | | | Total Units | 9.0 - 10.0 | Required o | | |
| WELD 90A | Gas Tungsten Arc Welding | 3.0 | WELD 81 | Pipe and Tube Welding | 3.0 | | n be substituted for BUSA 72 for t | | BUSO 5 | Business English | 3.0 |
| | Total Units | 30.0 | WELD 90B | Semiautomatic Arc Welding | 3.0 | | higher level certificate/degree or ourse for which BUSA 7 is a prerec | | CISB 15 | Microcomputer Applications | 4.0 CSU,UC |
| | higher level welding courses ma | iy be | | Process Total Units | 30.0 | | burse for which bush 7 is a prefer | juisite. | CISI 11 | Computer Keyboarding | 3.0 CSU |
| substituted | for WELD 40. | | Nata: Any k | | | Account | ing - Payroll | | | <u>or</u> | 4.5. (51) |
| | | | | nigher level welding courses m for WELD 40. | lay be | | and Management Department | | CISI 11A | Computer Keyboarding | 1.5 CSU |
| | | | Jubbillulcu | | | Certificate | | | CISI 11B | <u>and</u> Computer Keyboarding | 1.5 CSU |
| | | | | | | The Accourt | nting – Payroll Certificate combines | accounting | CISI 11B | Office Management Skills | 3.0 |
| | | | | | | | specialized training in payroll, prep | | | Total Units | 13.0 |
| | | | | | | | entry-level positions within the p | | | | 15.0 |
| | | | | | | | ng. Common duties performed inc | | | | |
| | | | | | | | ng, maintenance of payroll account g payroll transactions to journals/lo | | | | |
| | | | | | | | ents for the Certificate | cuyers. | | | |
| | | | | | | Required | | | | | |
| | | | | | | | n of Accounting-Bookkeeping Cer | tificate as | | | |
| | | | | | | follows: | | | | | |
| | | | | | | BUSA 7 | Principles of Accounting | 5.0 CSU,UC | | | |
| | | | | | | | - Financial | | | | |
| | | | | | | DUC: | <u>or</u> | 5.0 | | | |
| | | | | | | BUSA 72 | Bookkeeping - Accounting | 5.0 | | | |
| | | | | | | BUSA 53 | Ten-Key Calculations | 2.0 | | | |
| | | | 1 | | | 1 | | | 1 | | |

Athletic Trainer Aide I Physical Education Department Certificate E0802

The Athletic Trainer Aide I Certificate provides minimal experience necessary to assist High School Athletic Trainers and Athletic Health Care Providers in the community. Students desiring a Bachelor's Degree (transfer program) should consult with an advisor to discuss transferability of courses.

Requirements for the Certificate *Required courses:*

| PE 3 | First Aid and CPR | 3.0 | CSU,UC | | | |
|-------|--|------|--------|--|--|--|
| PE 5 | or Advanced First Aid/CPR/ | 3.0 | CSU | | | |
| PE 19 | Emergency Response Introduction to Care/Prevention | | CSU,UC | | | |
| PE 34 | of Activity/Sports-Related Injuries Fitness for Living 3.0 CSU,UC | | | | | |
| PE 92 | Work Experience | 2.0 | CSU,UC | | | |
| | - Athletic Training Total Units | 11.0 | | | | |
| | | 11.0 | | | | |

Business: Human Resource Management -Level I

Accounting and Management Department Certificate E0531

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. This certificate may aid the student's search for an entrylevel job in the business world.

Requirements for the Certificate *Required courses:*

| BUSM 20 | Principles of Business | 3.0 | CSU,UC |
|---------|---------------------------|-----|--------|
| BUSM 61 | Business Organization | 3.0 | CSU |
| | and Management | | |
| BUSM 62 | Human Resource Management | 3.0 | |
| | Total Units | 9.0 | |
| | | | |

Special Information:

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

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 entrylevel employment in international sales and marketing.

Requirements for the Certificate

| nequireu c | neguneu courses. | | | | | |
|----------------------|-----------------------------|-----|--------|--|--|--|
| BUSM 20 | Principles of Business | 3.0 | CSU,UC | | | |
| BUSM 51 | Principles of International | 3.0 | CSU | | | |
| | Business | | | | | |
| BUSS 36 | Principles of Marketing | 3.0 | CSU | | | |
| | Total Units | 9.0 | | | | |
| 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 introduce the student to the role of management in business. Management is the efficient use of human and capital resources to accomplish organizational objectives. Students will 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:

| BUSM 20 | Principles of Business | 3.0 | CSU,UC |
|---------|-------------------------|-----|--------|
| BUSM 61 | Business Organization | 3.0 | CSU |
| | and Management | | |
| BUSS 36 | Principles of Marketing | 3.0 | CSU |
| | Total Units | 9.0 | |
| | | | |

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:

| Constall for the second s | | | | | | |
|--|----------------------------|------|--------|---|--|--|
| | Total Units | 10.0 | | 0 | | |
| | and Merchandising | | | | | |
| BUSS 50 | Retail Store Management | 3.0 | | 0 | | |
| | or | | | | | |
| | and Merchandising | | | 0 | | |
| FASH 62 | Retail Store Management | 3.0 | CSU | | | |
| CISB 15 | Microcomputer Applications | 4.0 | CSU,UC | 0 | | |
| BUSO 25 | Business Communications | 3.0 | CSU | 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 Required courses: BUSM 20 Principles of Business 3.0 CSU,UC BUSM 66 Small Business Management 3.0 CSU Principles of Marketing 3.0 CSU BUSS 36 **Total Units** 9.0 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: 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 qualified teachers.

Requirements for the Certificate *Required courses:*

| | Total Units | 12.0 | | |
|----------|-------------------------------|------|--------|--|
| | - Honors | | | |
| CHLD 10H | Child Growth and Development | 3.0 | CSU,UC | |
| | <u>or</u> | | | |
| CHLD 10 | Child Growth and Development | 3.0 | CSU,UC | |
| | Development Curriculum | | | |
| CHLD 6 | Survey of Child | 3.0 | CSU | |
| | in Child Development Programs | | | |
| CHLD 5 | Principles/Practices | 3.0 | CSU | |
| CHLD 1 | Child, Family and Community | 3.0 | CSU,UC | |
| • | | | | |

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

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 PC-based Database Management System. The program covers the major topics of the Microsoft MOUS certification exam for Access.

Requirements for the Certificate *Required courses:*

| CISD 11 | Database Management | 4.0 | CSU |
|---------|--|------|-----|
| | - Microsoft Access | | |
| CISD 14 | Advanced Database | 4.0 | |
| | Management – Microsoft Access | 5 | |
| CISD 21 | Database Management | 4.0 | |
| | Microsoft SQL Server | | |
| 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

Required courses:

| CISP 10 | Principles of Object-Oriented Design | 2.0 | | Rea |
|---------|---------------------------------------|------|--------|-----|
| CISP 11 | Programming in Visual Basic | 4.0 | CSU,UC | CIS |
| | <u>or</u> | | | CIS |
| CISP 21 | Programming in Java | 4.0 | CSU,UC | CIS |
| | <u>or</u> | | | 0.5 |
| CISP 31 | Programming in C++ | 4.0 | CSU,UC | |
| | <u>or</u> | | | |
| CISP 41 | Programming in C# | 4.0 | | |
| CISP 14 | Advanced Visual Basic Programming | 14.0 | CSU,UC | |
| | or | • | | |
| CISP 24 | Advanced Java Programming | 4.0 | | |
| | or | | | |
| CISP 34 | Advanced C++ Programming | 40 | CSU,UC | |
| | 5 5 | 4.0 | C50,0C | |
| CISP 44 | <u>Or</u> Advanced Dreamming in C# | 10 | | |
| USF 44 | Advanced Programming in C# | 4.0 | | |
| | Total Units 1 | 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 *Required courses:*

| CISN 21 CISN 24 | Windows Operating System Microsoft NT Network System | | CSU CSU |
|--------------------|---|-----|------------|
| | Administration | 4.0 | (30 |
| | Total Units | 8.0 | |

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.

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Requirements for the Certificate *Required courses:*

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

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 | |
| CISS 27 | Defending Computer Systems | 1.0 | | |
| | Hands-On | | | |
| | Total Units | 13.0 | | |
| CIS Professional Certificate in SOA and Web Services | | | | |
| Computer Information Systems Department | | | | |
| Certificate E0724 | | | | |
| This certifie | 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:*

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:*

| Database Management | 4.0 |
|--|---|
| Microsoft SQL Server | |
| Database Management - Oracle | 4.0 |
| Database Design | 3.0 |
| Total Units | 11.0 |
| | – Microsoft SQL Server Database Management - Oracle Database Design |

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:*

| 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, webbased applets, servlets, navigating databases, and JavaBeans.

Requirements for the Certificate Reauired courses:

| CISD 11 | Database Management | 4.0 | CSU |
|---------|--|------|--------|
| | - Microsoft Access | | |
| | <u>or</u> | | |
| CISD 21 | Database Management | 4.0 | |
| | Microsoft SQL Server | | |
| | <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 CI: and enhance knowledge for network administration. However, individual courses may assist students in preparing for related certification exams.

Requirements for the Certificate Required courses:

| | Total Units | 16.0 | |
|----------|-------------------------------|------|-----|
| | and Routing | | |
| CISN 51 | Cisco CCNA Networking | 4.0 | CSU |
| CISN 34 | LINUX Networking and Security | 4.0 | CSU |
| | And Security Administration | | |
| CISN 24 | Windows Server Network | 4.0 | CSU |
| | Networking | | |
| CISN 11 | Telecommunications | 4.0 | CSU |
| neguneau | uiscs. | | |

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 | 10.0 |
|---------|--------------------------|------|
| CISD 40 | Database Design | 3.0 |
| CISD 32 | Oracle Forms and Reports | 3.0 |
| 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:

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

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 Required courses:

| nequireu co | ui ses. | | |
|-------------|--|------|--------|
| CISP 10 | Principles of Object-Oriented | 2.0 | |
| | Programming | | |
| CISP 11 | Programming in Visual Basic | 4.0 | CSU,UC |
| CISP 14 | Advanced Visual Basic | 4.0 | CSU,UC |
| | Programming | | |
| CISD 11 | Database Management | 4.0 | |
| | - Microsoft Access | | |
| | <u>or</u> | | |
| CISD 21 | Database Management | 4.0 | |
| | Microsoft SQL Server | | |
| | 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 Reauired courses:

| 1 | lotal Units | 12.0 | |
|-----------|--------------------------|------|-----|
| CISW 31 \ | Web Servers | 4.0 | |
| CISW 24 A | Advanced Web Programming | 4.0 | |
| CISW 11 I | nternet Technologies | 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:

| • | | | | |
|---|------------------------------|------|--------|--|
| 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 | | | | |

Computer Graphics Technology Proficiency **Commercial and Entertainment Arts Department** Certificate E0312

The Proficiency Certificate provides students and professionals with a fast-track, 4-course training cluster covering the creation, editing, and application of digital imagery for personal use and interest, updating software skills, career preparation and applications, digital portfolios, or electronic publishing.

Requirements for the Certificate Reauired courses:

| GRAP 8 | Fundamentals of Digital Media | 3.0 |
|---------|-------------------------------|------|
| GRAP 10 | Photoshop Imagery | 3.0 |
| GRAP 15 | InDesign Graphics | 3.0 |
| GRAP 16 | Illustrator Graphics | 3.0 |
| | Total Units | 12.0 |

Recommended Electives:

GRAP 18 3D Graphics Imagery Multimedia Graphics GRAP 20

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: HRM 52 Food Safety and Sanitation 15 (SII

| | INIVI JZ | Toou Salety and Salitation | 1.5 | CJU |
|---|----------|------------------------------|-----|-----|
| Н | RM 54 | Basic Cooking Techniques | 3.0 | CSU |
| Н | RM 91 | Work Experience | 1.0 | CSU |
| | | in Restaurant/Hospitality | | |
| Ν | F 20 | Principles of Foods with Lab | 3.0 | CSU |
| P | LUS | | | |

Select six (6) units from:

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

Dance Teacher Dance Department Certificate E0313

The Dance Teacher Certificate is intended to prepare students for careers as dance instructors in private dance studios, recreation centers and K-12 dance programs. Focus is on the genres of Ballet, Jazz and Modern Dance with pedagogical principles that can be applied to other dance forms. This certificate may aid the student's search for an entry-level job in the dance teaching world.

Requirements for the Certificate Required courses:

| DNCE 2B | Ballet II | 0.5 |
|----------|-----------------------------------|------|
| DNCE 4 | Choreography | 0.5 |
| DNCE 12B | Modern II | 0.5 |
| DNCE 14B | Jazz II | 0.5 |
| DNCE 24 | Dance Production | 1.0 |
| DNCE 33 | Improvisation | 0.5 |
| DNCE 35 | Repertory | 2.0 |
| DNCE 39A | Alignment and Correctives I | 0.5 |
| DN-T 20 | History and Appreciation of Dance | 3.0 |
| DN-T 38 | Dance Teaching Methods | 3.0 |
| PE 24 | Kinesiology | 2.0 |
| | Total Units | 14.0 |

Data Entry

Computer Information Systems 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:

| , , | | CISB 15Microcomputer Applications4.0CSU,UCISI 12Intermediate Computer3.0 | CISI 21 | Keyboarding Data Entry | 3.0 | |
|-----------------------------------|--------------------------------------|--|---------|----------------------------|------|--------|
| | Keyboarding CISL21 Data Entry 3.0 | CISI 12 Intermediate Computer 3.0 Keyboarding | | Total Units | 10.0 | |
| CISI 12 Intermediate Computer 3.0 | | | CISB 15 | Microcomputer Applications | 4.0 | CSU,UC |

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 technician provides a series of courses to meet th in assembly, soldering/de-soldering sk for both through-hole and surface mo Included are skills for various types of 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 50A Electronic Circuits (DC) 4.0 CSU ELEC 50B Electronic Circuits (AC) 4.0 CSU

Electrical Fundamentals

for Cable Installations

Electronic Assembly

and Fabrication

4.0

3.0 CSU

or

EST 50

ELEC 61

| | fundamentals, fabrication techniques, cabling and wiring |
|-----------------------|--|
| ns. The program | standards for voice, video and data, and basic computer |
| he needs of industry | |
| kills and fabrication | skills in word processing, spreadsheets, database and the |
| ount devices (SMD). | Internet. Level II certification (12-13 units) adds customer |
| cabling and | relations and advanced skills in the installation, |
| capiling and | calibration setup maintenance and troubleshooting of |

ELEC 62

ELEC 63

- Level I

Advanced Surface Mount

Electronic Systems Technology

Electronic Assemblies Recertification

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

California State Contractors C-7 Low Voltage Systems

certification (15-16 units) develops skills in electrical

comprising two levels of certification. The level I

system installer. The program prepares the student for the

license. The program encompasses a total of 27-29 units

Assembly and Rework

Total Units

Electronics and Computer

Technology Department

Certificate E0990

Recommended Electives:

2.0

13.0

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 troubleshooting digital TV with LCD, plasma, and DLP video displays is included. **Requirements for the Certificate**

Required courses:

| ELEC 11 | Technical Applications | 3.0 | CSU |
|---------|------------------------------|------|--------|
| | in Microcomputers | | |
| | <u>or</u> | | |
| CISB 15 | Microcomputer Applications | 4.0 | CSU,UC |
| EST 50 | Electrical Fundamentals | 4.0 | |
| | for Cable Installations | | |
| EST 52 | Fabrication Techniques | 4.0 | |
| | for Cable Installations | | |
| 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 jobs.

Requirements for the Certificate Required courses:

| EMT 90 | Emergency Medical Technician I | 10.5 |
|--------|---------------------------------------|------|
| | Total Units | 10.5 |

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: | | PE 40 Techniques of Teaching 2.0 | |
|---|--|---|--|
| Perform prolonged, extensive, or considerable | Fashion Design - Computer-Aided | Cardiovascular Exercise | Hospitality: Food Services |
| renorm prototyce, executive, or considerable standing/walking, lifting positioning, pushing, and/or transferring patients | Consumer Science and Design Technologies Certificate E1329 | PE 41 Techniques of Teaching 2.0 Weight Training | Consumer Science and Design Technologies Certificate E1390 |
| Possess the ability to perform fine motor movements | The Fashion Design - Computer-Aided certificate builds | PE 85 Fitness Specialist Internship 1.0 | This certificate prepares the holder to enter the food service field as a skilled food service worker in either foo |
| with hands and fingers | upon basic skills and provides students with intermediate technical and technological skills in fashion design and | | service field as a skilled food service worker in either foo preparation or service. |
| Possess the ability for extremely heavy effort (lift and | technical and technological skills in fashion design and patternmaking. With a diversified skill base that includes | Recommended Electives: | Requirements for the Certificate |
| carry at least 125 pounds | CAD technology, students will be better prepared for | DNCE 20A Alignment and Correctives | Required courses: |
| Perform considerable reaching, stooping, bending, | above entry-level positions and/or advancement to new | | HRM 51 Introduction to Hospitality 3.0 CSU |
| kneeling, and crouching | career opportunities. | Gallery Design/Operation | HRM 52 Food Safety and Sanitation 1.5 CSU |
| Sensory Demands: | Requirements for the Certificate | and Art Profession | HRM 53 Dining Room Service 3.0 CSU |
| <u>Color vision:</u> ability to distinguish and identify colors | Required courses: | Fine Arts | Management |
| (may be corrected with adaptive devices) | FASH 20 Illustration for Fashion 3.0 | Certificate E1020 | Total Units 7.5 |
| <u>Distance vision:</u> ability to see clearly 20 feet or more | and Costume Design FASH 21 Patternmaking I 3.0 CSU | This certificate is designed to provide students with the | Hospitality Hospitality |
| <u>Distance vision</u>: ability to see cleany 20 reet of more <u>Depth perception</u>: ability to judge distance and | FASH 21Patternmaking I3.0CSUFASH 24Fashion Patternmaking3.0 | | Hospitality: Hospitality Management - Level I |
| <u>Depth perception</u> : ability to judge distance and space relationships | hASH 24 Fashion Patternmaking 3.0 by Computer | | Management - Level I Consumer Science and Design Technologies |
| Near vision: ability to see clearly 20 inches or less | FASH 25 Fashion Computer-Assisted 3.0 | various/diverse artistic media and develop a career- | Consumer Science and Design Technologies Certificate E1332 |
| | Drawing | oriented artistic perspective. | The Hospitality: Hospitality Management - Level I |
| | FASH 26 Fashion Computer Assisted 2.0 | Requirements for the Certificate | Certificate prepares the holder for an entry-level position |
| Working Environment: | Design | - | within the hospitality industry. |
| May be exposed to infectious and contagious disease, with out price patients | Total Units 14.0 | - | Requirements for the Certificate |
| without prior notification | | | Required courses: |
| Regularly exposed to the risk of blood borne diseases | Fitness Specialist/Personal Trainer | | HRM 51Introduction to Hospitality3.0CSUHRM 53Dining Room Service3.0CSU |
| Exposed to hazardous agents, body fluids and wastes | Physical Education Department | ARIG 21B Intermediate Exhibition 3.0 CSU Production | HRM 53 Dining Room Service 3.0 CSU Management |
| Exposed to odorous chemicals and specimens | Certificate E0808 | | HRM 70 Introduction to Lodging 3.0 CSU |
| Subject to hazards of flammable, explosive gases | The Fitness Specialist/Personal Trainer Certificate prepares | 5 | HRM 91 Work Experience 1.0 CSU |
| Subject to burns and cuts | students for careers as personal trainers, health/fitness professionals in corporate fitness facilities, wellness | (off campus) | in Restaurant/Hospitality |
| Contact with patients having different religious, | centers and public/private health clubs. The Fitness | ARTG 22A Exhibition Design 1.0 | Total Units 10.0 |
| culture, ethnicity, race, sexual orientation, | Specialist/Personal Trainer Certificate curriculum is | and Art Gallery Operation Work Experience | |
| psychological and physical disabilities, and under a | designed to prepare students who wish to take exams | | Hospitality: Restaurant |
| wide variety of circumstances | offered by the American Council on Exercise (ACE), the | | Management - Level I |
| Handle emergency or crisis situations | American College of Sports Medicine (ACSM) and other | | Consumer Science and Design Technologies Certificate E1333 |
| Subject to many interruptions | nationally recognized organizations. Technical skills necessary for implementation of a safe, effective and | | Certificate E1333 The Hospitality: Restaurant Management - Level I |
| Requires decisions/actions related to end of life issues | motivational physical fitness program are presented. | | Certificate prepares the holder for an entry-level position |
| Exposure to products containing latex | Requirements for the Certificate | AHIS 6 History of Modern Art 3.0 CSU,UC | within a restaurant. |
| | Required courses: | Total Units 17.0 | Requirements for the Certificate |
| English Language Skills: | NF 10 Nutrition for Personal Health 3.0 CSU | | Required courses: |
| Although proficiency in English is not a criteria for admission into the EMT program, students must be able | and Wellness | | HRM 51 Introduction to Hospitality 3.0 CSU |
| admission into the EMT program, students must be able to speak, write and read English to to ensure patient | PE 15 Administration 2.0 | | HRM 52 Food Safety and Sanitation 1.5 CSU |
| safety and to complete classes successfully. | of Fitness Programs | | HRM 53 Dining Room Service 3.0 CSU |
| · · · · · · · · · · · · · · · · · · · | PE 24 Kinesiology 2.0 | | Management HRM 91 Work Experience 1.0 CSU |
| | PE 38 Physiology of Exercise for Fitness 3.0 PE 30 Techniques of Eitness Techniques 3.0 (SIL | | in Restaurant/Hospitality |
| | PE 39 Techniques of Fitness Testing 2.0 CSU | | Total Units 8.5 |
| | 1 | | |

Programs of Study Leading to a Certificate

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:*

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

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:*

| Total Units | 11.5 | |
|------------------------------|--------------|--------|
| CISW 11 Internet Technologie | s 4.0 | CSU |
| CISB 15 Microcomputer Appl | ications 4.0 | CSU,UC |
| CISB 11 Computer Information | | |

Interior Design: Level I Consumer Science and Design Technologies Certificate B0303

Interior Design: Level I Certificate is designed to prepare students with a broad overview and solid foundation in the area of interior design and related fields. This certificate may lead to new opportunities and provide students with the groundwork upon which to build a career.

Requirements for the Certificate *Required courses:*

| ID 10 | Introduction to Interior Design | 3.0 | CSU |
|-------|---------------------------------|-----|-----|
| ID 12 | Interior Materials and Products | 3.0 | CSU |
| ID 14 | History of Furniture and | 3.0 | CSU |

Decorative Arts
Total Units 9.0

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 in 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.
- 5. Possess a California Licensed Vocational Nurse license.
- 6. Criminal background check and drug screening must be completed prior to any patient contact.
- 7. 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 *Required courses:*

| NURS 5 | Psychiatric Nursing | 3.0 | CSU |
|---------|-----------------------------|-----|-----|
| NURS 8 | Medical-Surgical Nursing: | 5.0 | CSU |
| | Circulation and Oxygenation | | |
| 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 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 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.

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
- <u>*Hearing:*</u> able to recognize a full range of tones

Working Environment:

- May be exposed to infectious and contagious disease, Aiı 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 must be able to speak, write and read English to ensure patient safety and to complete classes successfully.

| Aircraft & Manu | ne Operator Maintenance Technician facturing Technology ite E0956 | | Required HRM 52 NF 20 NF 25 | cou |
|---------------------------------------|--|-------------------|---|---------------------|
| This certif employme positions. | NF 25H | <u>(</u> | | |
| Require | ments for the Certificate | 2 | NF 10 | 1 |
| Required | | | 15.20 | ć |
| MFG 10 | Mathematics and Blueprint Reading for Manufacturing | 3.0 | NF 28 | (|
| MFG 11 | Manual and CNC Manufacturing Essentials | 2.0 CSU | | |
| MFG 12 | Advanced Manufacturing Processes | 2.0 CSU | | |
| MFG 85 | Manual Computerized | 2.0 CSU | | |
| | Numerical Control (CNC) Prog | ramming | | |
| PLUS | | | | |
| | e (1) course from: | | | |
| MFG 38 | MasterCAMI | 2.0 CSU | | |
| MFG 39 | SurfCAM I | 2.0 CSU | | |
| | Total Units | 11.0 | | |
| | | | | |

| Master Aircraft I & Manuf Certificat This certifi MasterCAM necessary | Nutritio - Level II Consumer Certificate This certifica agencies suc Program for | | | |
|---|--|-------|--------|-----------------|
| sound fund | ctional data into the CAD/CAM sys | stem. | | Start, and Sc |
| Require | ments for the Certificate | | | Coursework |
| Required c | ourses: | | | knowledge r |
| MFG 11 | Manufacturing Processes I | 2.0 | CSU | programs th |
| MFG 38 | MasterCAM I | 2.0 | CSU | Requirem |
| MFG 38B | MasterCAM II | 2.0 | CSU | Required cou |
| MFG 85 | Manual Computerized | 2.0 | | Level I as foll |
| | Numerical Controls(CNC) Progra | mmin | q | HRM 52 |
| | Total Units | 8.0 | 5 | NF 20 |
| | | | | NF 25 |
| | on Program Assistan er Science and Design Tech te E1331 | | | NF 25H |
| | cate prepares students to work fo nd programs as nutrition assistan | | munity | NF 10 |
| Require | ments for the Certificate | | | Plus the foll |
| Reauired c | | | | NF 28 |
| HRM 52 | Food Safety and Sanitation | 1.5 | CSU | CHLD 10 |
| NF 20 | Principles of Foods with Lab | 3.0 | CSU | CHLD 64 |
| NF 25 | Essentials of Nutrition | 3.0 | | |
| 111 25 | or | 5.0 | 00,00 | |
| NF 25H | Essentials of Nutrition - Honors or | 3.0 | CSU,UC | |
| NF 10 | Nutrition for Personal Health and Wellness | 3.0 | CSU | |
| NF 28 | Cultural and Ethnic Foods | 3.0 | CSU,UC | |
| | Total Units | 10.5 | | |
| | | | | |
| | | | | |
| | | | | 1 |

on Program Assistant II: Child Program Emphasis r Science and Design Technologies e E1335 ate prepares students to work for community Ich as the Federal Supplemental Nutrition Women, Infants and Children (WIC), Head School Food Service as nutrition assistants. is designed to provide basic skills and necessary to entry-level positions in nutrition hat serve children.

nents for the Certificate ourses:

11 ...

| Level I as fo | llows: | | | Level I as fo | llows: |
|---------------|----------------------------------|------|--------|---------------|-----------------------------------|
| HRM 52 | Food Safety and Sanitation | 1.5 | CSU | HRM 52 | Food Safety and Sanitation |
| NF 20 | Principles of Foods with Lab | 3.0 | CSU | NF 20 | Principles of Foods with Lab |
| NF 25 | Essentials of Nutrition | 3.0 | CSU,UC | NF 25 | Essentials of Nutrition |
| | <u>or</u> | | | | <u>or</u> |
| NF 25H | Essentials of Nutrition - Honors | 3.0 | CSU,UC | NF 25H | Essentials of Nutrition - Honors |
| | <u>or</u> | | | | <u>or</u> |
| NF 10 | Nutrition for Personal Health | 3.0 | CSU | NF 10 | Nutrition for Personal Health |
| | and Wellness | | | | and Wellness |
| Plus the fo | llowing courses: | | | NF 28 | Cultural and Ethnic Foods |
| NF 28 | Cultural and Ethnic Foods | 3.0 | CSU,UC | Plus the fo | llowing courses: |
| CHLD 10 | Child Growth and Development | 3.0 | CSU,UC | NF 81 | Cooking for Your Heart and Health |
| CHLD 64 | Health, Safety and Nutrition | 3.0 | CSU | PE 34 | Fitness for Living |
| | of Young Children | | | SPCH 26 | Interpersonal Communications |
| | Total Units | 16.5 | | | Total Units |

Nutrition Program Assistant - Level II: Weight Management **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:** I aval I ac fallo 1.5 CSU 3.0 CSU 3.0 CSU,UC 3.0 CSU,UC 3.0 CSU 3.0 CSU,UC

| | Total Units | 17.5 | |
|---|----------------------------------|-------|--------|
| 5 | Interpersonal Communications | 3.0 | |
| | Fitness for Living | 3.0 | CSU,UC |
| | Cooking for Your Heart and Healt | h 1.0 | |

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:** MFG 15 2.0 AutoCAD 2D **MFG 17** 3-D CAD - Mechanical Modeling 2.0 **MFG 19** Parametric Solid Modeling 2.0 for Manufacturing MFG 25 Advanced Parametric Solid 2.0

The Pilates Professional Teacher Training Certificate prepares students for careers as Pilate instructors/trainers in professional Pilates studios, dance studios, corporate fitness facilities, wellness centers, public/private health clubs and private training in a home studio. The certificate curriculum meets the standards of the Pilates Method Alliance and includes lecture, self-study, and teaching hours. Phase I covers Pilates theory and the Mat and Reformer repertoire of exercises.

Requirements for the Certificate *Required courses:*

PE-I 50A

Yoga

Total Units

| DN-T 27 | Theory and Principles of Pilates | 3.0 |
|-------------|--------------------------------------|-----|
| DN-T 28 | Functional Anatomy for Pilates | 2.0 |
| DN-T 29 | Teaching Pilates Mat Repertoire | 1.5 |
| DN-T 30 | Teaching Pilates | 1.5 |
| | Reformer Repertoire | |
| DN-T 31 | Pilates Teaching | 3.0 |
| | Mat and Reformer | |
| PE 3 | First Aid and CPR | 3.0 |
| PE 24 | Kinesiology | 2.0 |
| Plus select | two (2) courses from: | |
| DNCE 39B | Alignment and Correctives II | 0.5 |
| DNCE 40 | Conditioning Through Dance | 0.5 |

0.5

17.0

Public Works/Landscape Management Agricultural Sciences

Certificate B0120

This program is a partnership between Mt. San Antonio College and Citrus College, with course requirements that must be taken at each college (courses in Public Works are offered through Citrus, while horticulture/landscape courses are offered at Mt. SAC). Upon completion of the requirements, students may apply for and receive a Certificate of Achievement from either of the two colleges.

Requirements for the Certificate *Required courses:*

| | Total Units | 12.00 |
|---------|---------------------------------|-------|
| | and Management | |
| AGOR 39 | Turf Grass Production | 3.0 |
| AGOR 1 | Horticultural Science | 3.0 |
| | (Citrus College) | |
| PUB 158 | Municipal and Urban Tree Care | 3.0 |
| PUB 150 | Public Works I (Citrus College) | 3.0 |

Radio Broadcasting Fundamental — Behind-the-Scenes

Commercial and Entertainment Arts

Certificate E0316

This introductory certificate is designed to equip students who have a goal of working Behind-the-Scenes in broadcasting with the basic skills needed to qualify for an entry-level job in the industry. Students will examine a variety of careers in the radio industry as well as learn the fundamentals of production, sales and promotion, management and programming, while gaining actual experience through an internship either at one of the campus radio stations or a commercial radio station.

Requirements for the Certificate *Required courses:*

- R-TV 01
 Introduction to Broadcasting
 3.0

 R-TV 09
 Broadcast Sales and Promotion
 3.0

 R-TV 10
 Radio Management
 3.0

 and Programming
 3.0

 R-TV 11A
 Beginning Radio Production
 3.0
- R-TV 96 Campus Radio Station Lab 1.0 2.0
- R-TV 97A Radio/Entertainment Industry 1.0 Seminar
- R-TV 97B Radio/Entertainment Industry 1.0 Internship Total Units 15.0 - 16.0

Radio Broadcasting Fundamental — On-Air Commercial and Entertainment Arts

Certificate E0317

This introductory certificate is designed to equip students with a goal to become On-Air professionals with the basic skills needed to qualify for an entry-level job in broadcasting. Students will examine a variety of careers in the radio industry as well as learn the fundamentals of on-air performance, production and gain actual experience through an internship either at one of the campus radio stations or a commercial radio station.

Requirements for the Certificate *Required courses:*

| R-TV 01 | Introduction to Broadcasting | 3.0 |
|----------|--|-----|
| R-TV 02 | On-Air Personality Development | 3.0 |
| R-TV 07 | Beginning Commercial Voice-Overs | 3.0 |
| R-TV 11A | Beginning Radio Production | 3.0 |
| R-TV 96 | Campus Radio Station Lab 1.0 - | 2.0 |
| R-TV 97A | Radio/Entertainment Industry Seminar | 1.0 |
| R-TV 97B | Radio/Entertainment Industry Internship | 1.0 |
| | Total Units 15.0 - 1 | 6.0 |

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

| nequireu courses. | | | | | | | | |
|-------------------|---------------------------------|------|-----|--|--|--|--|--|
| MFG 11 | Manufacturing Processes I | 2.0 | CSU | | | | | |
| MFG 39 | SurfCAM I | 2.0 | CSU | | | | | |
| MFG 39B | SurfCAM II | 2.0 | CSU | | | | | |
| MFG 85 | Manual Computerized | 2.0 | CSU | | | | | |
| | Numerical Control (CNC) Program | ming | J | | | | | |
| | Total Units | 8.0 | | | | | | |
| | | | | | | | | |

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 Reauired courses:

| WELD 40 | Introduction to Welding | 2.0 | CSU | | | | | |
|--|--------------------------|-----|-----|--|--|--|--|--|
| WELD 70A | Beginning Arc Welding | 3.0 | | | | | | |
| WELD 70B | Intermediate Arc Welding | 3.0 | | | | | | |
| | Total Units | 8.0 | | | | | | |
| 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

section

Programs of Study Leading to an Associates in Arts Degree or an Associate in Science Degree



PROGRAMS OF STUDY LEADING TO AN ASSOCIATE DEGREE

Mt. San Antonio College offers both Associate in Science (A.S.) and Associate in Arts (A.A.) degrees. In general, the Associate in Science degrees are two-year occupational degrees that prepare students for a variety of career and technical fields. The Associate in 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 in Arts degree will find that they have a solid foundation for further postsecondary study should they wish to transfer at a later date.

ASSOCIATE IN ARTS TRANSFER DEGREES (AA-T)

Recent legislation requires all California Community Colleges create associate degree for transfer. To earn an "associate degree for transfer" a student must complete 60 semester units that are eligible for transfer to the CSU that consist of: IGETC or CSU GE breadth, and a major or area of emphasis of at least 18 units. Students must have a minimum GPA of 2.0 to receive an associate degree for transfer. Students earning an associate degree for transfer will not be required to complete any other local graduation requirements. At the time of this printing, the associate degrees for transfer were in the process of design and approval. Please see your counselor or educational advisor to obtain the most current associate degree information.

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 in 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 in Science degree and an Associate in Arts degree with the 60 units required for an Associate degree if they have met the requirements for both within the 60 units of 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:

NOTE: All students must file a petition for graduation with the Admissions & Records

Office and have on file all required documents and transcripts.

- 1. 12 units in residence and enrollment in the last semester, or
- 2. 45 units in residence if the last semester is not at Mt. SAC.

GRADUATION REQUIREMENTS 2011-2012

The following requirements apply to both Associate in Science (A.S.) and Associate in 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,
 - <u>or</u> Math 71B Intermediate Algebra - Second Half
 - or Math 71X Practical Intermediate Algebra or
- 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 in 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 in 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 courses used for the A.A. degree majors may be doubled counted toward the Mt. San Antonio College General Education requirements.

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.)
- 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:

- Programs Leading to an Associate degree
- 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.

GENERAL EDUCATION OUTCOMES (GEOs)

Adapted from CSU Executive Order 595 and Title 5 Section 40405.1

GEOs are statements that define the knowledge, skills, and perspectives acquired by students who satisfy our general education requirements. It is through the assessment of GEOs that the Mt. SAC general education curriculum will be evaluated for improvements. GEOs have been determined and will be assessed by faculty who teach courses within Areas A-E of our general education pattern. The GEOs for Mt. SAC can be found at: *www.mtsac.edu/instruction/general/geos_mtsac.html*

| | GENERAL EDUCATION REQUIREMENTS FOR 2011-2012 GENERAL EDUCATION REQUIREMENTS FOR 2011-2012 (continued) | | | | | | | |
|---------------------|---|----------------------|---|--|---------------------|--|------------------|---|
| | | | | | | | | |
| AREA A: | | PHSC 7L | Physical Science Laboratory | | AHIS 5 | History of Western Art: Renaissance | ENGL 1BH | J |
| | ition in the English Language (6 units): | PHYS 1 | Physics | | | Through Modern | | Types – Honors |
| - | 1) courses from the following: | PHYS 2AG | | | AHIS 5H | History of Western Art: Renaissance | FRCH 1 | Elementary French |
| ENGL 1A | Freshman Composition | PHYS 2BG | General Physics | | | Through Modern — Honors History of Modern Art | FRCH 2 FRCH 3 | Continuing Elementary French Intermediate French |
| | Freshman Composition – Honors | PHYS 4A | Engineering Physics | | AHIS 6 | • | | |
| - | 1] courses from the following: | PHYS 4B PHYS 4C | Engineering Physics | | AHIS 6H AHIS 9 | History of Modern Art — Honors History of Asian Art | FRCH 4 FRCH 5 | Continuing Intermediate French Advanced French |
| SPCH 1A | Public Speaking | | Engineering Physics | | AHIS 9 AHIS 10 | A History of Greek and Roman Art and | FRCH 5 | Continuing Advanced French |
| | Public Speaking – Honors | LIFE SCIENC | | | Anis Iu | Architecture | FRCH 60 | French Culture Through Cinema |
| SPCH 2 | Fundamentals of Communication | AGOR 1 | Horticultural Science | | AHIS 11 | History of African, Oceanic, and Native | GERM 1 | Elementary German |
| SPCH 8 | Professional and Organizational Speaking | ANAT 10A ANAT 10B | Introductory Human Anatomy Introductory Human Physiology | | | American Art | GERM 2 | Continuing Elementary German |
| SPCH 8H | Professional and Organizational Speaking | ANAT TOD ANAT 35 | Human Anatomy | | AHIS 12 | History of Precolumbian Art | GERM 3 | Intermediate German |
| | – Honors | ANAT 35 ANAT 36 | Human Anatomy Human Physiology | | AHIS 12 AHIS 12H | History of Precolumbian Art – Honors | *HIST 1 | History of the U.S. |
| AREA B: | | ANAT 30 ANTH 1 | Biological Anthropology | | ARCH 31 | World Architecture I | *HIST 3 | World History: Prehistoric to Early Modern |
| | al Universe and Life (3 units): | ANTH 1 ANTH 1H | Biological Anthropology – Honors | | ARCH 32 | World Architecture I | *HIST 3H | World History: Prehistoric to Early Modern |
| | 1] course from the Physical Sciences or | ANTH 11 | Biological Anthropology Laboratory | | ARTB 14 | Basic Studio Arts | 11151 511 | - Honors |
| Life Sciences | | BIOL 1 | General Biology | | ARTD 15A | Drawing: Beginning | *HIST 4 | World History: Early Modern to the Present |
| PHYSICAL SO | TENCES | BIOL 2 | Plant and Animal Biology | | ARTD 20 | Design: Two-Dimensional | *HIST 4H | World History: Early Modern to the Present |
| ASTR 5 | Introduction to Astronomy | BIOL 3 | Ecology and Field Biology | | ARTD 25A | Beginning Painting I | | - Honors |
| ASTR 5H | Introduction to Astronomy – Honors | BIOL 4 | Biology for Majors | | ARTG 20 | Art, Artists and Society | *HIST 7 | History of the U.S. |
| ASTR 5L | Astronomical Observing Laboratory | BIOL 4H | Biology for Majors – Honors | | ARTS 22 | Design: Three-Dimensional | *HIST 7H | History of the U.S. – Honors |
| ASTR 7 | Geology of the Solar System | BIOL 6 | Humans and the Environment | | ARTS 30A | Ceramics: Beginning I | *HIST 8 | History of the U.S. |
| ASTR 8 | Introduction to Stars, Galaxies, and the | BIOL 6L | Humans and the Environment Laboratory | | ARTS 40A | Sculpture: Beginning | *HIST 8H | History of the U.S. – Honors |
| | Universe | BIOL 8 | Cell and Molecular Biology | | DN-T 20 | History and Appreciation of Dance | *HIST 10 | History of Asia |
| CHEM 10 | Chemistry for Allied Health Majors | BIOL 17 | Neurobiology and Behavior | | ID 14 | History of Furniture and Decorative Arts | *HIST 11 | History of Asia |
| CHEM 20 | Introductory Organic and Biochemistry | BIOL 20 | Marine Biology | | MUS 7 | Fundamentals of Music | *HIST 19 | History of Mexico |
| CHEM 40 | Introduction to General Chemistry | BIOL 21 | Marine Biology Laboratory | | MUS 11A | Music Literature Survey | *HIST 30 | History of the African American |
| CHEM 50 | General Chemistry I | BIOL 34 | Fundamentals of Genetics | | MUS 11B | Music Literature Survey | *HIST 31 | History of the African American |
| | General Chemistry I – Honors | BIOL 34L | Fundamentals of Genetics Laboratory | | MUS 12 | History of Jazz | *HIST 35 | History of Africa |
| CHEM 51 | General Chemistry II | MICR 1 | Principles of Microbiology | | MUS 13 | Introduction to Music Appreciation | *HIST 36 | Women in American History |
| GEOG 1 | Elements of Physical Geography | MICR 22 | Microbiology | | MUS 13H | Introduction to Music Appreciation – | *HIST 39 | California History |
| GEOG 1H GEOG 1L | Elements of Physical Geography – Honors | PSYC 1B | Biological Psychology | | | Honors | *HIST 40 | History of the Mexican American |
| GEOG 1L GEOG 1LH | Physical Geography Laboratory Physical Geography Laboratory — Honors | AREA C: | | | MUS 14A | World Music | HUMA 1 | The Humanities |
| GEOG TEN | Physical Geology | | lumanities (6 units): | | MUS 14B | American Folk Music | ITAL 1 | Elementary Italian |
| GEOL 7 | Geology of California | Select two | 2] courses, six [6] units minimum, with at | | MUS 15 | Rock Music History and Appreciation | ITAL 2 | Continuing Elementary Italian |
| GEOL 8 | Earth Science | least one [1 |] course from the Arts and one [1] from | | PHOT 15 | History of Photography | ITAL 3 | Intermediate Italian |
| GEOL 8H | Earth Science — Honors | Humanities | • | | SPCH 4 | Performance of Literature | ITAL 4 | Continuing Intermediate Italian |
| GEOL 8L | Earth Science Laboratory | ARTS | | | THTR 9 | Introduction to Theatre Arts | ITAL 5 | Advanced Italian |
| GEOL 9 | Environmental Geology | AHIS 1 | Understanding the Visual Arts, <u>or</u> | | THTR 10 | History of Theatre Arts | ITAL 6 | Continuing Advanced Italian |
| GEOL 10 | Natural Disasters | ARTB 1 | Understanding the Visual Arts | | THTR 11 | Principles of Acting I | ITAL 60 | Italian Culture Through Cinema |
| METO 3 | Weather and the Atmospheric Environment | AHIS 1H | Understanding the Visual Arts – Honors | | HUMANITIES | | JAPN 1 | Elementary Japanese |
| METO 3L | Weather and the Atmospheric | AHIS 3 | History of Women and Gender in Art | | ARAB 1 | Elementary Arabic | JAPN 2 | Continuing Elementary Japanese |
| | Environment Laboratory | AHIS 3H | History of Women and Gender in Art – Honors | | ARAB 2 | Continuing Elementary Arabic | JAPN 3 | Intermediate Japanese |
| OCEA 10 | Introduction to Oceanography | AHIS 4 | History of Western Art: Prehistoric | | CHIN 1 | Elementary Chinese | JAPN 4 | Continuing Intermediate Japanese |
| OCEA 10H | Introduction to Oceanography – Honors | | Through Gothic | | CHIN 2 | Continuing Elementary Chinese | JAPN 5 | Advanced Japanese |
| OCEA 10L | Introduction to Oceanography Laboratory | AHIS 4H | History of Western Art: Prehistoric | | CHIN 3 | Intermediate Chinese | LATN 1 | Elementary Latin |
| PHSC 3 | Energy Science | | Through Gothic — Honors | | CHIN 4 | Continuing Intermediate Chinese | LATN 2 | Continuing Elementary Latin |
| PHSC 7 | Physical Science not be double counted to satisfy more than o | | · · · · · · | | ENGL 1B | English – Introduction to Literary Types | LIT 1 | Early American Literature |
| *Courses may | not be double counted to satisfy more than o | ne area, even i | t a course is listed in more than one area. | | *Courses may | y not be double counted to satisfy more than | one area, even i | t a course is listed in more than one area. |

| - | GENERAL EDUCATION REQUIRE | MENTS FOR | 2011-2012 (continued) | | GENERAL EDUCATION REQUIRE | MENTS FOR | R 2011-2012 (continued) |
|---------------|---|-------------------|--|-------------------|---|-------------------|--|
| LIT 2 | Modern American Literature | *HIST 7 | History of the U.S. | JOUR 107 | Race, Culture, Sex, and Mass Media Images | | Gateway to Communication Studies |
| LIT 2 | Multicultural American Literature | *HIST 7H | History of the U.S. – Honors | POLI 2 | Political Science | AREA E: | duceway to communication studies |
| LIT 6A | Survey of English Literature | *HIST 8 | History of the U.S. | *POLI 5 | Political Theory I – Ancient to Modern | | nderstanding and Self-Development (3 units): |
| LIT 6B | Survey of English Literature | *HIST 8H | History of the U.S. – Honors | *POLI 7 | Political Theory II – Early Modern to | | [1] course from the following: |
| LIT 10 | Survey of Shakespeare | *HIST 30 | History of the African American | | Contemporary | | |
| LIT 11A | World Literature to 1650 | *HIST 31 | History of the African American | POLI 9 | Introduction to International Relations | AD 3 | Chemical Dependency: Intervention, |
| LIT 11B | World Literature from 1650 | *HIST 36 | Women in American History | POLI 10 | Environmental Politics | BIOL 5 | Treatment and Recovery Contemporary Health Issues |
| LIT 14 | Introduction to Modern Poetry | *HIST 40 | History of the Mexican American | PSYC 1A | Introduction to Psychology | BIOL 3 BIOL 13 | Human Reproduction, Development |
| LIT 15 | Introduction to Cinema | POLI 1 | Political Science | PSYC 1AH | Introduction to Psychology – Honors | DIUL 15 | and Aging |
| LIT 20 | African American Literature | POLI 1H | Political Science — Honors | *PSYC 14 | Developmental Psychology | BIOL 15 | Human Sexuality |
| LIT 25 | Contemporary Mexican American | POLI 25 | Politics of the Mexican American | PSYC 15 | Introduction to Child Psychology | BIOL 15 | Human Sexuality – Honors |
| | Literature | POLI 35 | African American Politics | PSYC 19 | Abnormal Psychology | *CHLD 10 | Child Growth and Development |
| LIT 36 | Introduction to Mythology | Elective Co | urses – select at least one [1] course | *PSYC 25 | The Psychology of Women | *CHLD 10H | |
| LIT 40 | Children's Literature | | ollowing list (3 units): | SOC 1 | Sociology | COUN 5 | Career/Life Planning |
| LIT 46 | The Bible as Literature: Old Testament | AGAG 1 | Food Production, Land Use and Politics – | SOC 1H | Sociology – Honors | FCS 41 | Life Management |
| LIT 47 | The Bible as Literature: New Testament | | A Global Perspective | SOC 2 | Sociology | LEAD 55 | Exploring Leadership |
| PHIL 5 | Introduction to Philosophy | AGFR 20 | Conservation of Natural Resources | SOC 2H | Sociology – Honors | NF 10 | Nutrition for Personal Health and Wellness |
| | Introduction to Philosophy – Honors | ANTH 3 | Archaeology | SOC 4 | Introduction to Gerontology | NF 25 | Essentials of Nutrition |
| PHIL 12 | Ethics | ANTH 5 | Principles of Cultural Anthropology | SOC 5 | Introduction to Criminology | NF 25H | Essentials of Nutrition – Honors |
| PHIL 12H | Ethics – Honors | ANTH 22 | General Cultural Anthropology | SOC 5H | Introduction to Criminology – Honors | NF 28 | Cultural and Ethnic Foods |
| PHIL 15 | Major World Religions | ANTH 30 | The Native American | SOC 14 | Marriage and the Family | PE 34 | Fitness for Living |
| PHIL 15H | Major World Religions — Honors History of Western Philosophy | BUSC 1A | Principles of Economics – Macroeconomics | SOC 14H | Marriage and the Family— Honors Child Development | *PSYC 14 | Developmental Psychology |
| | | BUSC 1AH | Principles of Economics – | *SOC 15 | | *PSYC 25 | The Psychology of Women |
| | History of Western Philosophy – Honors History of Western Philosophy | | Macroeconomics – Honors | SOC 20 SOC 20H | Sociology of Ethnic Relations Sociology of Ethnic Relations — Honors | PSYC 26 | Psychology of Sexuality |
| | History of Western Philosophy – Honors | BUSC 1B | Principles of Economics – Microeconomics | SPCH 7 | Intercultural Communication | PSYC 33 | Psychology for Effective Living |
| *POLI 5 | Political Theory I – Ancient to Modern | BUSC 1BH | Principles of Economics – | SPCH 7 SPCH 7H | Intercultural Communication – Honors | *SOC 15 | Child Development |
| *POLI 7 | Political Theory II – Early Modern | | Microeconomics – Honors | *SPCH 26 | Interpersonal Communication | *SPCH 26 | Interpersonal Communication |
| | to Contemporary | CHLD 1 | Child, Family, School and Community | *SPCH 26H | Interpersonal Communication – Honors | *SPCH 26H | Interpersonal Communication – Honors |
| SIGN 101 | American Sign Language 1 | *CHLD 10 | Child Growth and Development | | iy not be double counted to satisfy more than o | I | if a second is listed in means them are such |
| SIGN 101 | American Sign Language 2 | *CHLD 10H | Child Growth and Development – Honors | * Courses mo | iy not be double counted to satisfy more than o | ne area, even i | ir a course is listed in more than one area. |
| SIGN 102 | American Sign Language 3 | GEOG 2 GEOG 2H | Human Geography | | | | |
| SIGN 104 | American Sign Language 4 | GEOG 2H GEOG 5 | Human Geography — Honors World Regional Geography | | ALPHABETICAL LISTING — ASSO | DCIATE IN S | SCIENCE DEGREE (A.S.) |
| SIGN 202 | American Deaf Culture | GEOG S GEOG 8 | The Urban World | Mt. San Ar | tonio College offers two year occupationa | I degrees in | the following section of this Catalog. To |
| SPAN 1 | Elementary Spanish | GEOG 30 | Geography of California | | the degree, students must complete the | | |
| SPAN 2 | Continuing Elementary Spanish | *HIST 3 | World History: Prehistoric to Early Modern | | general education courses as listed on pa | | |
| SPAN 3 | Intermediate Spanish | *HIST 3H | World History: Prehistoric to Early Modern | | seling and Advising Services on the upper | | |
| SPAN 4 | Continuing Intermediate Spanish | | - Honors | | sering and harming services on the appen | | |
| SPAN 5 | Advanced Spanish | *HIST 4 | World History: Early Modern to the Present | Α | | | nd Aircraft Powerplant |
| SPAN 6 | Continuing Advanced Spanish | *HIST 4H | World History: Early Modern to the Present | Accounting | | | ance Technology – Evening |
| SPAN 11 | Spanish for the Spanish Speaking | | - Honors | | ive Assistant | Alcohol/Dru | g Counseling |
| SPAN 12 | Continuing Spanish for the Spanish Speaking | *HIST 10 | History of Asia | | blogy | | |
| SPAN 25 | Spanish Literature | *HIST 11 | History of Asia | | ning and Refrigeration | | ooratory Science Technology |
| AREA D: | | *HIST 19 | History of Mexico | | ning and kerrigeration 69 nd Aircraft Powerplant | | al Technology – Design Concentration 71 |
| | tical and Economic Institutions | *HIST 35 | History of Africa | | | | I Technology – Technology Concentration 72 |
| | U.S. History and American Institutions | *HIST 39 | California History | Mainten | ance Technology — Day | | ence |
| Select one [1 | 1] course from the following: | HIST 44 | History of Native Americans | | | Addition July | chee |
| *HIST 1 | History of the U.S. | JOUR 100 | Mass Media and Society | | | | |
| *Courses may | not be double counted to satisfy more than o | one area, even i | f a course is listed in more than one area. | | | | |

| ALPHABETICAL LISTING — ASSOCIAT | E IN SCIENCE DEGREE (A.S.) (continued) | LISTING BY INSTRUCTIONAL DIVISION | — ASSOCIATE IN SCIENCE DEGREE (A.S.) |
|--|--|---|--|
| B-C | L | Arts Division | Pet Science |
| Building Automation72 | Law Enforcement | Animation | Registered Veterinary Technology |
| | Licensed Vocational Nurse to RN | Computer Graphics Design/Photography | Physical Education Division |
| | Livestock Management | Graphic Design | Physical Education |
| Child Development | | Photography | , |
| Commercial Flight | <u>M-N</u> | Radio Broadcasting: On the Air | 37 |
| Computer and Networking Technology74 | Manufacturing Technology 82 | Television Production | Air Conditioning and Refrigeration |
| Computer Graphics Design/Photography | Marketing Management | Business Division | Airframe and Aircraft Powerplant Maintenance Technology – Day |
| Computer Network Administration and | Mental Health Technology — Psychiaric | | Airframe and Aircraft Powerplant |
| Security Management | Technician83 | Accounting | Maintenance Technology – Evening |
| Computer Programmer – Database | Nursing | Administrative Assistant | Alcohol/Drug Counseling |
| Management Systems | 0-0 | Business: Retail Management | Architectural Technology71 |
| Computer Programming | | Child Development | Aviation Science |
| Construction Inspection74 | Ornamental Horticulture | Computer Network Administration & | Building Automation |
| Correctional Sciences | ralaleyal/Leyal Assistallt | Security Management | Commercial Flight |
| | Park & Sports Turf Management | Computer Programmer – Database | Construction Inspection |
| D-E | Pet Science | Management Systems | Correctional Sciences |
| Educational Paraprofessional75 | | Computer Programming | Electronics and Computer Engineering |
| Electronics and Computer Engineering Technology 75 | Physical Education | Family and Consumer Sciences | Technology |
| Emergency Medical Services | Psychiatric Technician to RN | Fashion Design | Emergency Medical Services75 |
| Engineering Design Technology76 | R | Fashion Merchandising | Engineering Design Technology |
| Equipment Technology77 | Radio Broadcasting: Behind the Scenes | General Business | Fire Technology |
| Escrow Management77 | Radio Broadcasting: Dennie the Scenes | Hospitality and Restaurant Management | Law Enforcement |
| | Radiologic Technology | Human Resource Management | Licensed Vocational Nurse to RN |
| | Real Estate | Interior Design | Manufacturing Technology |
| Family and Consumer Sciences | | International Business | Mental Health Technology – Psychiatric |
| Fashion Design77 | | Marketing Management | Technology |
| Fashion Merchandising | | Paralegal/Legal Assistant | Nursing 84 Psychiatric Technician to RN 86 |
| Fire Technology | | Real Estate 89 | Radiologic Technology |
| Fire Technology – Administrative Law | S-T | Real Estate Appraisal | Respiratory Therapy |
| G-H | Sign Language/Interpreting | Small Business Management | Welding |
| General Business | | Humanities & Social Sciences Division | 5 |
| Graphic Design | | Educational Paraprofessional | |
| Histologic Technician Training | | Sign Language/Interpreting91 | |
| Horse Ranch Management | | Natural Sciences Division | |
| Hospitality and Restaurant Management | Welding 91 | | |
| Human Resource Management 79 | | Agri-Technology | |
| | | Architectural Technology – Technology Concentration | |
| I-J-K | | Equipment Technology | |
| Integrated Pest Management | | Histologic Technician Training | |
| Interior Design | | Horse Ranch Management | |
| Interior Design — Kitchen and Bath Design | | Integrated Pest Management | |
| International Business | | Livestock Management | |
| | | Ornamental Horticulture | |

Accounting

Accounting and Management Department Major S0502

Students preparing to become professional accountants should follow the Business Administration course for a four-year college or university. The following is semiprofessional training for those who seek employment in bookkeeping or accounting positions at the end of two years.

Requirements for the Major *Required courses:*

| 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 52 | Intermediate Accounting | 3.0 | |
| BUSA 53 | Ten-Key Calculations | 2.0 | |
| | <u>or</u> | | |
| BUSA 81 | Work Experience in Accounting | 1.0 | |
| BUSA 58 | Federal Income Tax Law | 3.0 | |
| BUSA 70 | Payroll and Tax Accounting | 3.0 | |
| BUSA 75 | Using Microcomputers | 1.0 | |
| | in Financial Accounting | | |
| | <u>or</u> | | |
| BUSA 81 | Work Experience in Accounting | 1.0 | |
| BUSA 76 | Using Microcomputers | 1.0 | |
| | in Managerial Accounting | | |
| | <u>or</u> | | |
| BUSA 81 | Work Experience in Accounting | 1.0 | |
| BUSM 20 | Principles of Business | 3.0 | CSU,UC |
| BUSO 25 | Business Communications | 3.0 | CSU |
| CISB 15 | Microcomputer Applications | 4.0 | CSU,UC |
| | Total Units | 36.0 | - 37.0 |

| Admin | istrative Assistant | | |
|--------------------|--|--------|----------|
| Compute | er Information Systems De | epartn | nent |
| Major SO | | | |
| | am is intended to prepare stude | | |
| | nt following graduation as adm | | |
| | executive assistants, office man | | or other |
| | d support staff. Training in a var and clerical skills is emphasized. | | nts |
| | bachelor's degree (transfer prog | | |
| | th a counselor or advisor to disc | | |
| transferab | ility of courses. | | |
| Require | ments for the Major | | |
| | core courses: | | |
| BUSO 5 | Business English | 3.0 | |
| BUSO 25 | Business Communications | 5.0 | CSU |
| BUSO 26 | Oral Communications | 3.0 | |
| | for Business | | |
| CISB 15 | Microcomputer Applications | | CSU,U |
| CISB 31 | Microsoft Word | 3.0 | |
| CISB 51 | Microsoft PowerPoint | 3.0 | CSU |
| CISI 12 | Intermediate Computer | 3.0 | |
| | Keyboarding | | |
| CISI 41 | Office Management Skills | 3.0 | |
| PLUS Select one | (1) course from: | | |
| CISB 61 | Desktop Publishing Software | 3.0 | |
| CISI 21 | Data Entry | 3.0 | |
| CISW 15 | Web Site Development | 4.0 | CSU |
| | Total Units | 20.0 | 29.0 |

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 in 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

AGLI 30

AGOR 24

AGOR 62

AGPE 70

AGPE 71

Beef Production

Landscape Irrigation

- Design and Installation

Pet Shop Management

Canine Management

Total Units

Integrated Pest Management

| Requirements for the Major | | | | | |
|----------------------------|--------------|-------------------------------------|-----|--------|---------|
| | Required co | urses: | | | AIRC 11 |
| | AGAB 20 | Microcomputer Applications | 3.0 | CSU,UC | |
| | | in Agriculture | | | AIRC 12 |
| | AGAG 1 | Food Production, Land Use | 3.0 | CSU,UC | |
| | | and Politics - A Global Perspective | 2 | | AIRC 20 |
| | AGAG 91 | Agricultural Calculations | 3.0 | | AIRC 25 |
| | AGAN 1 | Animal Science | 3.0 | CSU,UC | |
| | AGOR 1 | Horticultural Science | 3.0 | CSU | AIRC 26 |
| | AGOR 32 | Landscaping and Nursery | 3.0 | CSU | AIRC 30 |
| | | Management | | | AIRC 31 |
| | AGOR 56 | Engine Diagnostics | 3.0 | CSU | |
| | AGOR 71 | Landscape Construction | 3.0 | CSU | AIRC 32 |
| | | Fundamentals | | | AIRC 34 |
| | PLUS | | | | |
| | Select one o | ourse from: | | | |
| | AGFR 20 | Conservation of Natural Resources | 3.0 | CSU,UC | |
| | AGLI 14 | Swine Production | 3.0 | CSU | |
| | AGLI 16 | Horse Production | 4.0 | CSU,UC | |
| | AGLI 17 | Sheep Production | 3.0 | CSU | |

3.0 CSU

3.0 CSU

3.0 CSU

27.0 - 28.0

3.0

3.0

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 dearee (transfer program) should consult with

a counselor or advisor to discuss transferability of courses.

Requirements for the Major Required courses: AIRC 10 Technical Mathematics

| 10 | Technical Mathematics | 2.0 |
|-----|-----------------------------------|--------|
| | in Air Conditioning and Refrigera | ation |
| 11 | Welding for Air Conditioning | 2.0 |
| | and Refrigeration | |
| 12 | Air Conditioning Codes | 3.0 |
| | and Standards | |
| 20 | Refrigeration Fundamentals | 4.0 |
| 25 | Electrical Fundamentals | 5.0 |
| | for Air Conditioning and Refriger | ration |
| 26 | Gas Heating Fundamentals | 2.0 |
| 30 | Heat Load Calculations | 4.0 |
| 31 | Commercial Electrical | 4.0 |
| | for Air Conditioning and Refriger | ration |
| 32A | Air Properties and Measurement | 1.5 |
| 34 | Advanced Mechanical | 4.0 |
| | Refrigeration | |
| | Total Units | 31.5 |

Airframe and Aircraft Powerplant Maintenance Technology-Evening **Aircraft Maintenance Tech** & Manufacturing Dept. Major 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 in 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 | y3.0 |
| AIRM 90B | Airframe Maintenance Technology | y3.0 |
| AIRM 91A | Airframe Maintenance Technology | y3.0 |
| AIRM 91B | Airframe Maintenance Technolog | y3.0 |
| | | |

| AIRM 92A | Airframe Maintenance Techno | oloav3.0 |
|------------------|---|--------------------|
| AIRM 92B | Airframe Maintenance Techno | 57 |
| AIRM 93A | Airframe Maintenance Techno | |
| AIRM 93B | Airframe Maintenance Techno | ology3.0 |
| AIRM 95A | Aircraft Powerplant | 3.0 |
| | Maintenance Technology | |
| AIRM 95B | Aircraft Powerplant | 3.0 |
| | Maintenance Technology | |
| AIRM 96A | Aircraft Powerplant | 3.0 |
| | Maintenance Technology | |
| AIRM 96B | Aircraft Powerplant | 3.0 |
| | Maintenance Technology | |
| AIRM 97A | Aircraft Powerplant | 3.0 |
| | Maintenance Technology | |
| AIRM 97B | Aircraft Powerplant | 3.0 |
| | Maintenance Technology | |
| AIRM 98A | Aircraft Powerplant | 3.0 |
| | Maintenance Technology | |
| AIRM 98B | Aircraft Powerplant | 3.0 |
| | Maintenance Technology | |
| 0 | Total Units | 63.0 |
| AIRM 74 | nded Electives: | |
| AIKM 74 | Aircraft Maintenance Technol - Work Experience | ogy |
| AIRM 80 | Lab Studies in Aircraft | |
| | Maintenance Technology | |
| AIRM 81 | Lab Studies in Aircraft | |
| AINWOT | Maintenance Technology | |
| EDT 12 | Technical Engineering Drawir | all |
| ELEC 90 | Survey of Electronics | ig ii |
| MFG 70 | Technical Mathematics | |
| ini d <i>i</i> o | - Manufacturing Applications | |
| PHYS 1 | Physics | |
| | | |
| Airfran | ne and Aircraft Pow | verplant |
| | nance Technology- | |
| | Maintenance Tech | • |
| | acturing Dept. | |
| Major S0 | | |
| | m prepares students to enter em frame and powerplant technicia | |
| maintenano | te industry. Training is given in th | n in the alltrait |
| | rames and powerplants and thei | |
| | of this program leads to an Asso | |
| degree. Two | state-awarded certificates are a | lso available upon |
| successful o | ompletion of this program - one | certificate in |
| Airframe M | aintenance Technology and one | certificate in |

Aircraft Powerplant Maintenance Technology. Excellent

opportunities for employment exist in this area of training. Certain administrative, guality 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. 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:** AIRM 65A Aircraft Powerplant 13.0 CSU Maintenance Technology AIRM 65B Aircraft Powerplant 13.0 Maintenance Technology AIRM 66A Airframe Maintenance 13.0 CSU Technology AIRM 66B Airframe Maintenance 13.0 Technology

AIRM 70A Aircraft Maintenance Electricity 3.0 and Electronics AIRM 70B Aircraft Maintenance Electricity 3.0 and Flectronics AIRM 71 Aviation Maintenance Science 6.0 AIRM 72 Aviation Materials and Processes 1.5 AIRM 73 Aviation Welding 1.5 **Total Units** 67.0 **Recommended Electives:** Aircraft Maintenance Technology AIRM 74 - 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

Physics

PHYS 1

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.

| | kequirea co | ore courses: | | |
|----|-------------------|---------------------------------|--------|--------|
| ie | AD 1 | Alcohol/Drug Dependency | 3.0 | CSU |
| | AD 2 | Physiological Effects | 3.0 | CSU |
| | | of Alcohol/Drugs | | |
| S | AD 3 | Chemical Dependency: | 3.0 | CSU |
| | | Intervention, Treatment and Rec | overy | |
| s. | AD 4 | Issues in Domestic Violence | 3.0 | |
| | AD 5 | Chemical Dependency: | 1.5 | CSU |
| | | Prevention and Education | | |
| | AD 6 | Dual Diagnosis | 3.0 | CSU |
| | Required s | killed courses: | | |
| | AD 8 | Group Process and Leadership | 3.0 | |
| | AD 9 | Family Counseling | 3.0 | |
| | AD 10 | Client Record and Documentation | on 1.5 | |
| | AD 11 | Techniques of Intervention | 3.0 | |
| | | and Referral | | |
| | Required fi | eld work courses: | | |
| | AD 13 | Internship/Seminar | 4.0 | CSU |
| | AD 14 | Advanced Internship/Seminar | 4.0 | CSU |
| | PLUS | | | |
| | | 5) units from: | | |
| | CHLD 10 | Child Growth and Development | 3.0 | CSU,UC |
| | | <u>or</u> | | |
| | CHLD 10H | Child Growth and Development | 3.0 | CSU,UC |
| | | - Honors | | |
| | PSYC 1A | Introduction to Psychology | 3.0 | CSU,UC |
| | | <u>or</u> | | |
| | PSYC 1AH | Introduction to Psychology | 3.0 | CSU,UC |
| | | - Honors | | |
| | PSYC 19 | Abnormal Psychology | 3.0 | CSU,UC |
| | SOC 1 | Sociology | 3.0 | CSU,UC |
| | | <u>or</u> | | |
| | SOC 1H | Sociology - Honors | 3.0 | CSU,UC |
| | SOC 14 | Marriage and the Family | 3.0 | CSU,UC |
| | SOC 15 | Child Development | 3.0 | CSU,UC |
| | | Total Units | 41.0 | |
| | | | | |

| - | ibility Requirements Selection Procedures | Anima | | | | ANIM 111 ANIM 121 | Animal Drawing History of Animation | | |
|----------|---|----------------------|---|------------|---------------|----------------------|---|----------|--------|
| Eligi | bility Requirements: | | | | | ANIM 131 | Introduction to Gaming | | |
| | 5 11 1 | | 006 | . d / | | ANIM 134 | Dynamic Digital Environments | | |
| | student at Mt. San Antonio College. | | tion Program offers an integrate inary approach to prepare stude | | moot | ANIM 135 | Visual Effects II: Particle System | IS | |
| | Selection Procedures All classes are open to all | | future job market demands. Th | | | ANIM 148 | Demo-Reel | | |
| | students who meet admission requirements and | | balanced blend of art and tech | | | | | | |
| | course prerequisites. | | n are essential for today's career | | | | d Laboratory Scienc | e | |
| | ial Instructions: | | m offers both an A.S. degree an | | | | ology (ALST) | | |
| a) | Restricted Electives must be taken prior to | | tent is driven by industry needs | | | | y Department | | |
| | enrollment in Field Experience | | e student with the best possible animation or for transfer to an | | | Major S | | م احما م | |
| b) | Restricted Electives can be taken in conjunction with core and skills courses | higher lear | | mstitui | | | m provides theoretical and tech students for employment as ent | | |
| c) | Refer to Schedule of Credit Classes for sequence of courses | | ments for the Major | | | | echnicians in fields such as chem | / | |
| c) d) | For questions, call the division office at (909) 594- | Required of | | | | | emical process control, analytica | | |
| u) | 5611, ext. 4750 | | Drawing - Gesture and Figure | 3.0 | CSU | | ity, and research and developme | | |
| | | ANIM 104 | Drawing Fundamentals | 3.0 | CSU | | cludes a broad-based overview | | |
| | king environment: | | <u>or</u> | | | | d emphasizes development of a | | |
| | May be exposed to infectious and contagious disease, | ARTD 15A | Drawing: Beginning | 3.0 | CSU,UC | | proficiency, critical thinking, an f experimental designs and outc | | DIE- |
| | without prior notification | ANIM 108 | Principles of Animation | 3.0 | CSU | | ments for the Major | onics. | |
| | May be exposed to the risk of blood borne diseases | ANIM 115 | Storyboarding | 3.0 | | Required of | | | |
| | Exposed to hazardous agents, body fluids and wastes | ANIM 116 | Character Development | 1.5 | | BUSM 10 | Principles of Continuous | 3.0 | |
| | Exposed to odorous chemicals and specimens | ANIM 130 | Introduction to 3-D | 3.0 | | | Quality Improvement | 510 | |
| | Subject to hazards of flammable, explosive gases | | Computer Animation | | | CHEM 20 | Introductory Organic | 5.0 | CSU,UC |
| | Subject to burns and cuts | ARTC 290 | Portfolio Cranhis Design L | 3.0 | | | and Biochemistry | | |
| | Contact with patients having different religious, | ARTC 100 ARTD 17A | Graphic Design I Drawing: Life | | CSU CSU,UC | CHEM 50 | General Chemistry I | 5.0 | CSU,UC |
| _ | culture, ethnicity, race, sexual orientation, | ARTD 17A | Design: Two Dimensional | | CSU,UC | | <u>or</u> | | |
| | psychological and physical disabilities, and under a | ARTS 22 | Design: Three-Dimensional | | CSU,UC | CHEM 50H | General Chemistry I - Honors | | CSU,UC |
| | wide variety of circumstances | PLUS | Design. Three Dimensional | 5.0 | 00,00 | CHEM 51 | General Chemistry II | | CSU,UC |
| | Handle emergency or crisis situations | Select one | course from: | | | CHEM 60 | Quantitative Chemical Analysis | | CSU,UC |
| | Subject to many interruptions | ANIM 109 | Advanced Principles of Animat | ion 3.0 | | CHMT 1 | Introduction to Chemical | 3.0 | |
| | Requires decisions/actions related to end of life | ANIM 117 | Animation Background Layout | | CSU | CUMTO | Laboratory Technology | 1.0 | 2.0 |
| | issues | ANIM 120 | Script Development | 3.0 | | CHMT 8 | Work Experience in Chemical Technology | 1.0 | - 2.0 |
| | Exposed to products containing latex | | for Animation | | | PLUS | lechnology | | |
| _ | | ANIM 131 | Introduction to Gaming | 3.0 | | | o seven (6 - 7) units from: | | |
| | Exposure to a highly charged emotional environment which can be stressful intense | ANIM 132 | Modeling, Texture Mapping | 3.0 | | MICR 22 | Microbiology | 4.0 | CSU,UC |
| Enal | ish Language Skills: | | and Lighting | | | PHIL 12 | Ethics | | CSU,UC |
| - | | ANIM 172 | Motion Graphics, Compositing and Visual Effects | 2.0 | | | <u>or</u> | | |
| | ough proficiency in English is not a criteria for ission into the Alcohol/Drug Counseling Program, | ANIM 175 | Web Animation With Flash | 3.0 3.0 | | PHIL 12H | Ethics - Honors | | CSU,UC |
| | ents are encouraged to be able to speak, write and | ARTD 16 | Drawing: Perspective | | CSU,UC | SPCH 26 | Interpersonal Communication | 3.0 | CSU,UC |
| | English to complete classes successfully and to | | Total Units | 34.5 | | | <u>or</u> | | |
| | re safety for themselves and for others. | Recommen | ded Electives: | 5-1.5 | | SPCH 26H | Interpersonal Communication | 3.0 | CSU,UC |
| | | AHIS 4 | History of Western Art: | | | | - Honors | • • | |
| | | | Prehistoric through Gothic | | | | Total Units | 33.0 | - 34.0 |

History of Western Art: Renaissance through Modern

AHIS 5

Architectural Technology - Design Concentration Architecture and Engineering Design Department Major S0207 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 Required courses:

| e | ARCH 10 | Design I - Elements of Design | 3.0 | CSU |
|------|---------|-----------------------------------|-----|--------|
| lls, | ARCH 11 | Architectural Drawing | 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 |
| J,UC | ARCH 23 | Architectural Presentations | 3.0 | CSU |
| | ARCH 27 | Design III - Environmental Design | 3.0 | CSU,UC |
| J,UC | ARCH 29 | Design IV - Advanced Project | 3.0 | CSU |
| | ARCH 31 | World Architecture I | 3.0 | CSU |
| J,UC | ARCH 32 | World Architecture II | 3.0 | CSU,UC |
| J,UC | PLUS | | | |
| J,UC | | 1) course from: | | |
| | ARCH 15 | Architectural Working | 3.0 | CSU |
| | | Drawings - I | | |
| | ARCH 18 | Architectural Computer | 3.0 | |
| | | Aided Design Elements | | |
| | PLUS | | | |
| | | 1) course from: | | |
| J,UC | ARCH 14 | Building and Zoning Codes | 3.0 | |
| J,UC | ARCH 15 | Architectural Working | 3.0 | CSU |
| | | Drawings - I | | |
| J,UC | ARCH 18 | Architectural Computer | 3.0 | |
| J,UC | | Aided Design Elements | | |
| | ARCH 26 | Architectural CAD | 3.0 | |
| J,UC | | Working Drawings | | |
| | ARCH 28 | Architectural CAD | 3.0 | CSU |
| .0 | | Illustration and Animation | | |
| | ARCH 89 | Architectural Work Experience | 1.0 | |
| | ARCH 90 | Architectural Work Experience | 2.0 | |
| | | Soction | 0 | 71 |

Section 8 71

| INSP 70 | Elements of Construction Total Units | 5.0 | CSU - 40.0 | EDT 20 INSP 70 |
|--------------|--|-------------|----------------------|-------------------|
| Recommen | ded Electives: | | | PLUS |
| ARTD 15A | Drawing: Beginning | | | Select one |
| ARTD 20 | Design: Two Dimensional | | | ARCH 13 |
| ARTS 22 | Design: Three-Dimensional | | | ARCH 21 |
| BIOL 6 | Humans and the Environme | nt | | ARCH 23 |
| ENGL 1C | Critical Thinking and Writing | | | ARCH 31 |
| MATH 150 | | | | ARCH 32 |
| PHYS 2AG | Trigonometry General Physics | | | ARCH 89 |
| | ATH 150, and PHYS 2AG are t | unically re | auirad | EDT 26 |
| for transfer | to a professional school of arc ents with the transfer institut | hitecture. | , | INSP 71 |
| Archite | ctural Technology | _ | | Recomme |
| | logy Concentratio | | | MATH 150 |
| | ure and Engineering | | | PHYS 2AG |
| | epartment | | | MATH 150 |

| recimology concentration |
|---|
| Architecture and Engineering Design Department |
| Major S0201 |
| 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 |
| Technology Concentration focuses upon building and |
| construction technology, documentation, codes, and |
| computer applications. Current technology and computer |
| (CAD) skills are integrated into the program. A certificate program is also available. |
| Requirements for the Major |

Requirements for the Major Required courses:

| ARCH 10 | Design I - Elements of Design | 3.0 | CSU | There are no | o p |
|---------|-------------------------------|-----|--------|--------------|-----|
| ARCH 11 | Architectural Drawing | 3.0 | CSU,UC | Require | me |
| ARCH 12 | Architectural Materials | 3.0 | CSU | Required o | ои |
| | and Specifications | | | AERO 23 | F |
| ARCH 14 | Building and Zoning Codes | 3.0 | | AERO 24 | M |
| ARCH 15 | Architectural Working | 3.0 | CSU | AERO 26 | ŀ |
| | Drawings - I | | | AERO 27 | ŀ |
| ARCH 16 | Basic CAD and Computer | 4.0 | CSU,UC | | 2 |
| | Application | | | AERO 29 | F |
| ARCH 18 | Architectural Computer | 3.0 | | AERO 30 | I |
| | Aided Design Elements | | | AIRT 41 | ŀ |
| ARCH 26 | Architectural CAD | 3.0 | | | 2 |
| | Working Drawings | | | AIRT 42A | T |
| ARCH 28 | Architectural CAD | 3.0 | CSU | AIRT 42B | E |
| | Illustration and Animation | | | AIRT 43 | ŀ |
| ARCH 29 | Design IV - Advanced Project | 3.0 | CSU | CISB 11 | (|
| | | | | TRAN 17 | ŀ |
| | | | | | |

2.0. 6611

| EDT 20 | Technical Descriptive Geometry | 3.0 | CSU | |
|--------------|---|--------|----------------------|---------|
| INSP 70 | Elements of Construction | 3.0 | CSU | R |
| PLUS | | | | A |
| Select one (| 1) course from: | | | A |
| ARCH 13 | Architectural Illustration | 3.0 | CSU,UC | A |
| ARCH 21 | Design II - Architectural Design | 3.0 | | A |
| ARCH 23 | Architectural Presentations | | CSU | B |
| 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 | B |
| EDT 26 | Civil Engineering Technology and CAD | 3.0 | CSU | A a |
| INSP 71 | | 2.0 | <i>cc</i> 11 | N |
| INSP / I | Construction Estimating Total Units | | CSU - 40.0 | Tł |
| Pacamman | ded Electives: | 50.0 | 10.0 | Ca M |
| MATH 150 | | | | d |
| | Trigonometry | | | c |
| PHYS 2AG | General Physics IND PHYS 2AG typically are requir | ad for | transfor | c |
| | ional school of architecture. Verify | | tiunsier | R |
| | s with the transfer institution. | un | | R |
| | | | | A |
| Aviatio | n Science | | | A |
| | ics, Transportation | | | |
| | l Department | | | A |
| Major S09 | | | A | A |
| | Im meets the requirements of the F on Collegiate Training Initiative (CTI) | | | |
| | partnership agreement with the FA | | | A |
| | pares students for broad-based avia | | | |
| | pleting this CTI program may be re | | | A |
| | e for hiring by the FAA as air traffic | | | A |
| | prerequisites or enrollment limitati | | | |
| Requiren | nents for the Major | | | A |
| Required co | • | | | CI |
| AERO 23 | Primary Pilot Ground School | 4.0 | CSU | CI |
| AERO 24 | Navigation | 3.0 | CSU | CI |
| AERO 26 | Aviation Weather | 3.0 | CSU | |
| AERO 27 | Aviation Safety | 3.0 | CSU | |
| | and Human Factors | | | - |
| AERO 29 | Federal Aviation Regulations | 2.0 | CSU | B |
| AERO 30 | Instrument Ground School | 3.0 | CSU | A |
| AIRT 41 | Aircraft Recognition | 3.0 | CSU | N |
| | and Performance | | | Tł |
| AIRT 42A | Terminal Air Traffic Control | 3.0 | CSU | e |
| AIRT 42B | Enroute Air Traffic Control | 3.0 | CSU | b |
| AIRT 43 | Air Traffic Control Team Skills | 1.5 | | a |
| CISB 11 | Computer Information Systems | 3.5 | | R |
| TRAN 17 | Air Transportation | 3.0 | CSU | R |
| | | 2.0 | | |

| 1 | | | i i | | | |
|--|--|--------------------|----------------------------|---------------------------------------|--------|---------|
| | Total Units | 35.0 | BUSA 7 | Principles of Accounting | 5.0 | CSU,UC |
| Recomme | nded Electives: | | | - Financial | | |
| AERO 25 | Commercial Pilot Ground Schoo | bl | BUSM 10 | Principles of Continuous | 3.0 | |
| AERO 28 | Aircraft and Engines | | | Quality Improvement | | |
| AERO 40 | Flight | | BUSM 20 | Principles of Business | 3.0 | CSU,UC |
| AERO 40L | Flight Laboratory | | BUSM 51 | Principles of International | 3.0 | CSU |
| BUSM 60 | Human Relations in Business | | | Business | | |
| | | | BUSM 60 | Human Relations in Business | 3.0 | CSU |
| Buildi | ng Automation | | BUSM 61 | Business Organization | 3.0 | CSU |
| Air Conditioning, Welding and Water Technologies | | | | and Management | | |
| | | | BUSM 62 | Human Resource Management | 3.0 | |
| Major S0308 This program is designed to prepare the student for a | | BUSS 36 | Principles of Marketing | 3.0 | CSU | |
| | | CISB 15 | Microcomputer Applications | 4.0 | CSU,UC | |
| career in the fields of Building Automation, Energy | | | | Total Units | 30.0 | |
| | ent, and Green Building Technolo | | Recommen | nded Electives: | | |
| | bachelor's degree (transfer prog | | BUSM 81 | Work Experience in Business | | |
| | ith an advisor to discuss transfera | ability of | BUSM 85 | Special Issues in Business | | |
| course. | | | BUSS 85 | Special Issues in Marketing | | |
| | ments for the Major | | 000000 | special issues in marketing | | |
| Required | | | Duraina | an Datail Managrama | | |
| AIRC20 | Refrigeration Fundamentals | 3.0 | | ss: Retail Manageme | | |
| AIRC25 | Electrical Fundamentals for A/ | 4.0 | Major S0 | ing and Management Depa | artme | ent |
| | & Refrigeration | | - | m exposes students to the business | world | and the |
| AIRC31 Commercial Electrical for A/C 4.0 | | | | il distribution. Students become fan | | |
| AIRC34 | & Refrigeration Advanced Mechanical | 4.0 | | etail management as well as the la | | |
| AIRC34 | Refrigeration | 4.0 | | anging field. Completion of this pro | | |
| AIRC61 | Building Automation | 2.5 | | arch for an entry-level job in retail | | |
| AIRCOT | Fundamentals | 2.5 | Require | ments for the Major | | |
| AIRC63 | Building Control Networks | 3.0 | Required o | | | |
| AIRC65 | Building Automation Network | 3.0 | BUSA 7 | Principles of Accounting | 5.0 | CSU,UC |
| | & Programming | 510 | | - Financial | | |
| AIRC67 | Energy Management | 4.0 | | or | | |
| CISN11 | Telecommunications/Networki | ng 4.0 | BUSA 72 | Bookkeeping - Accounting | 5.0 | |
| CISW41 | XML Secure Programming | 3.0 | BUSA 11 | Fundamentals of Accounting | 3.0 | |
| CISW49 | Service Oriented Architecture | 3.0 | BUSM 60 | Human Relations in Business | 3.0 | CSU |
| | Concepts & Practice | | BUSM 61 | Business Organization | 3.0 | CSU |
| | Total Units | 37.5 | | and Management | | |
| | | | BUSM 62 | Human Resource Management | 3.0 | |
| Busine | ess: Management | | BUSO 25 | Business Communications | | CSU |
| | ing and Management Dep | artment | BUSO 26 | Oral Communications | 3.0 | |
| Major S | 5 5 1 | | | for Business | | |
| | am is intended to prepare stude | nts for | BUSS 36 | Principles of Marketing | 3.0 | CSU |
| | ent following graduation. Studen | | CISB 15 | Microcomputer Applications | | CSU,UC |
| bachelor's | degree (transfer program) shoul | d consult with | FASH 62 | Retail Store Management | | CSU |
| a counselo | or or advisor to discuss transferat | oility of courses. | 11.511.02 | and Merchandising | 5.0 | 0.00 |
| Require | ments for the Major | | | or | | |
| Required | | | BUSS 50 | Retail Store Management | 3.0 | |
| | | | 000000 | netan store management | 5.0 | |

| evelopment elopment s15 n introduces students to the stud l their education and prepares st t following graduation in the fiel it. An Associate in Science degree are offered. Students desiring a b isfer program) should consult wi advisor to discuss transferability | uden Id of e and | ts for Child | CHLD 62 CHLD 63 CHLD 71A | Music and Motor Development for Young Children Creative Sciencing and Math for Young Children Administration of Child Develop Programs | ment | |
|---|--|---|---|---|---|---|
| elopment a15 n introduces students to the stud I their education and prepares st t following graduation in the fiel it. An Associate in Science degree are offered. Students desiring a b isfer program) should consult wi | uden Id of e and | ts for Child | | Creative Sciencing and Math for Young Children Administration of Child Develop | ment | |
| n introduces students to the stuc I their education and prepares st t following graduation in the fiel it. An Associate in Science degree are offered. Students desiring a b isfer program) should consult wi | uden Id of e and | ts for Child | | for Young Children Administration of Child Develop | ment | |
| I their education and prepares st t following graduation in the fiel it. An Associate in Science degree are offered. Students desiring a b Isfer program) should consult wi | uden Id of e and | ts for Child | CHLD 71A | Administration of Child Develop | ment | |
| t following graduation in the fiel at. An Associate in Science degree are offered. Students desiring a b sfer program) should consult wi | ld of (e and | Child | | | | |
| at. An Associate in Science degree are offered. Students desiring a b Isfer program) should consult wi | e and | | | | | |
| are offered. Students desiring a b Isfer program) should consult wi | | | CHLD 71B | Management/Marketing/Persor | nnel | |
| isfer program) should consult wi | actici | | | for ECD Programs | | |
| | degree (transfer program) should consult with a | | | | onship |)S |
| • | | ourses. | CHLD 73 | Infant/Toddler Care and Develop | oment | |
| ents for the Major | | | | | | |
| urses: | | | | ercial Flight | | |
| Child, Family and Community | 3.0 | CSU,UC | | tics, Transportation | | |
| Principles/Practices | 3.0 | CSU | | el Department | | |
| in Child Development Programs | | | Major SO | ercial Flight curriculum prepares | studer | nts for |
| Survey of Child Development | 3.0 | CSU | | aircraft pilots as well as related g | | |
| Curriculum | | | | is in aviation. Students have the o | | |
| Child Growth and Development | 3.0 | CSU,UC | for optiona | al flight training with commensu | rate co | llege |
| <u>or</u> | _ | | | pilot license is not required for g | raduat | tion but |
| Child Growth and Development | 3.0 | CSU,UC | it is desira | ble for career advancement. | | |
| - Honors | | | | am prepares students for military | | |
| Health, Safety and Nutrition | 3.0 | CSU | | reers through transfer programs | | |
| of Young Children | | | | ation curricula throughout the na | | |
| Early Childhood Development | 2.0 | CSU | | flight training, students may ach | | |
| | | | | | rating | |
| | 1.0 | CSU | | - | | |
| | 2.0 | CC 11 | | | | |
| | 2.0 | CSU | - | | 10 | CSII |
| | 1.0 | <i>cc</i> 11 | | | | |
| | 1.0 | CSU | | 2 | | |
| | 2.0 | <u>(</u> (1) | | | | CSU |
| | | | | | | CSU |
| | 2.0 | 00 | /12/10/2/ | | 5.0 | 0.00 |
| | 10 | CSII | AERO 28 | | 3.0 | CSU |
| | 1.0 | 00 | | • | | CSU |
| | 10 | CSII | | Instrument Ground School | | CSU |
| | 1.0 | 00 | | | | CSU |
| | 28 N | | | Total Units | | |
| | | | Recomme | | | |
| | | | | | | |
| t Permit. | | | | • | | |
| | | | | | | |
| led Electives: | | | | Kacić Flight Simulator Laborator | | |
| led Electives: Multicultural Education [.] Anti-Bia | s Pers | nective | AERO 41 | | | |
| led Electives: Multicultural Education: Anti-Bia Early Literacy in Child Developme | | pective | AERO 41 AERO 58 AIRT 41 | Basic Hight Simulator Laborator Flight Instructor Ground School Aircraft Recognition and Perforr | | |
| | Deservation Carly Childhood Development Deservation Laboratory Carly Childhood Development Participation Carly Childhood Development Participation Laboratory Children With Special Needs Carly Childhood Development Children With Special Needs Carly Childhood Development Carly Childhood Development Child Development Settings Carly Childhood Development Carly Carly | Observation 1.0 Carly Childhood Development 1.0 Diservation Laboratory 2.0 Carly Childhood Development 2.0 Carly Childhood Development 1.0 Carlicipation 1.0 Carlicipation Laboratory 1.0 Childhood Development 1.0 Childhood Development 2.0 Childhood Development 2.0 Childhood Development 2.0 Cield Work Seminar 3.0 Guidance and Discipline 1.0 n Child Development Settings 1.0 Carly Childhood Development 1.0 Cield Work 28.0 Oracl Units 28.0 Durses are acceptable for the Child Permit. 28.0 | Observation 1.0 CSU Carly Childhood Development 1.0 CSU Observation Laboratory 2.0 CSU Carly Childhood Development 2.0 CSU Participation 1.0 CSU Childhood Development 1.0 CSU Participation Laboratory 1.0 CSU Childhood Development 2.0 CSU Children With Special Needs 3.0 CSU Carly Childhood Development 2.0 CSU Cield Work Seminar 1.0 CSU Suidance and Discipline 1.0 CSU n Child Development Settings 1.0 CSU Carly Childhood Development 1.0 CSU Cield Work 28.0 Surgers are acceptable for the Child requirements leading to the Child Permit. Permit. Surgers are acceptable for the Child Permit. Surgers are acceceptable for the Ch | Observation commercial aarly Childhood Development 1.0 CSU Dbservation Laboratory simultanee aarly Childhood Development 2.0 CSU Participation AERO 23 aarly Childhood Development 1.0 CSU Participation AERO 24 Participation Laboratory AERO 24 Participation Laboratory AERO 25 Childhood Development 1.0 CSU Participation Laboratory AERO 26 Childhood Development 2.0 CSU AERO 26 AERO 27 Tield Work Seminar AERO 28 AERO 29 AERO 29 aarly Childhood Development Settings AERO 29 AERO 29 AERO 30 Total Units 28.0 Purses are acceptable for the Child requirements leading to the Child AERO 40 Permit. AERO 40 | Observationcommercial pilot certificate and instrumentiarly Childhood Development1.0CSUObservation Laboratory2.0CSUiarly Childhood Development2.0CSUParticipation2.0CSUiarly Childhood Development1.0CSUParticipation1.0CSUParticipation LaboratoryAERO 23Primary Pilot Ground SchoolAERO 24Participation LaboratoryAERO 25Childhood Development2.0Childhood Development2.0Childhood Development2.0Childhood Development2.0Childhood Development2.0Childhood Development2.0Cid Work Seminar1.0Suidance and Discipline1.0Cotal Units28.0Purses are acceptable for the ChildPermit.Recommended Electives:AERO 40FlightAERO 40FlightAERO 40FlightAERO 40LFlight Laboratory | Observationcommercial pilot certificate and instrument rating simultaneously with the A.S. degree.Observation Laboratory1.0CSUCarly Childhood Development2.0CSUParticipation2.0CSUCarly Childhood Development1.0CSUParticipation1.0CSUParticipation Laboratory1.0CSUParticipation Laboratory1.0CSUParticipation Laboratory2.0CSUParticipation Laboratory3.0Children With Special Needs3.0CSUChildhood Development2.0CSUAERO 26Aviation Weather3.0Carly Childhood Development2.0CSUAERO 27Aviation Safety3.0Carly Childhood Development2.0CSUAERO 28Aircraft and Engines3.0Carly Childhood Development1.0CSUAERO 29Federal Aviation Regulations2.0Carly Childhood Development1.0CSUAERO 29Federal Aviation Regulations2.0Carly Childhood Development1.0CSUAERO 29Federal Aviation Regulations2.0Cotal Units28.0Total Units27.0Permit.Permit.AERO 40Flight AERO 40Permit.AERO 40Flight AERO 40LFlight Laboratory |

he Commercial Flight faculty recommend that students omplement their studies with selected elective courses nosen from the list above. Students should meet with a rofessor of commercial flight to help them determine hich electives would best suit their career plans.

Computer - Database Management Systems

Computer Information Systems Department Major S0706

The Computer Information Systems major is a two-year program leading to the Associate in Science (A.S.) degree. The program is designed to prepare students for employment in a computer field following graduation. Students wishing a Bachelors' degree (transfer program) should meet with a counselor or advisor to discuss transferability of courses.

Coursework includes a list of core courses and additional courses for each concentration. The Database Management Systems Concentration includes coursework in the design, development and maintenance of relational databases. Students choosing this concentration have the option of selecting either the Microsoft or Oracle concentration.

Requirements for the Major Required core courses:

| negunea | ne 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 Systems | 4.0 | | |
| BUSM 20 | Principles of Business | 3.0 | | |
| | <u>or</u> | | | |
| BUSM 25 | Principles of E-Commerce | 3.0 | | |
| | <u>or</u> | | | |
| BUSA 7 | Principles of Accounting | 5.0 | | |
| | - Financial | | | |
| PLUS | | | | |
| | of the following two concentration | ns: | | |
| Microsoft C | oncentration: | | | |
| CISD 11 | Database Management | 4.0 | CSU | |
| | - Microsoft Access | | | |
| CISD 14 | Advanced Database | 4.0 | | |
| | Management - Microsoft Access | | | |
| CISD 21 | Database Management | 4.0 | | |
| | - Microsoft SQL Server | | | |
| CISD 40 | Database Design | 3.0 | | |
| | | | | |

| Oracle | Concentration: | |
|--------|----------------|--|
| | | |

| CISD 31 | Database Management - Oracle | 4.0 |
|---------|------------------------------|-------------|
| CISD 32 | Oracle Forms and Reports | 3.0 |
| CISD 40 | Database Design | 3.0 |
| | Total Units | 28.0 - 35.0 |

Computer Graphics Design/Photography Commercial and Entertainment Arts Major S1005

This program is designed to prepare students for employment in the field of computer graphics/photography. A variety of career opportunities are available in art, cinema, communications, industrial arts, graphics, and journalism. Students desiring a bachelor's degree should consult with a counselor or advisor or the catalog of the institution they wish to attend to address transferability of courses.

| | GRAP 1 | Computer Graphics Lab | 1.0 | | |
|-----|--|---------------------------------|---------|--------|--|
| | GRAP 10 | Photo Editing with Photoshop | 3.0 | | |
| | GRAP 12 | Advanced Photo Editing | 3.0 | | |
| | | with Photoshop | | | |
| JU, | GRAP 14 | Digital Color Management | 3.0 | | |
| ,UC | GRAP 16 | Digital Image Design | 3.0 | | |
| ,UC | | with Illustrator & Freehand | | | |
| ,00 | GRAP 18 | Advanced Image Design | 3.0 | | |
| | | - 3D Modeling Techniques | | | |
| | 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 | | |
| | Recommen | ded Electives: | | | |
| | AHIS 1 | Understanding the Visual Arts | | | |
| | | <u>or</u> | | | |
| | ARTB 1 | Understanding the Visual Arts | | | |
| | COMP 10 Operating the Macintosh Computer | | | | |
| | GRAP 24 Work Experience in Computer Graphics | | | | |
| | PHOT 1 | Laboratory Studies: | | | |
| | | Black and White Photography | | | |
| | PHOT 2 | Laboratory Studies: Color Phote | ography | | |
| | PHOT 4 | Digital Cameras and Compositi | on | | |
| | PHOT 15 | History of Photography | | | |
| | | | | | |
| | | | | | |

Computer and Networking Technology

Electronics and Computer Technology Department Major S0725

The Computer and Networking Technology program prepares students to become computer and networking service technicians. The program provides foundations in basics electricity and electronics, operating systems, computer service and troubleshooting, and customer relations, as well as more advanced training in networks, servers, and security. Students learn to install, configure, maintain, troubleshoot, and repair computers and networks. Students will become fully prepared to take the A+, Network+, Server+, and Security+ certification tests sponsored by CompTIA and offered at testing centers throughout the country. These industry certifications are recognized worldwide as benchmarks for the computer and networking technician. Further, students will have requisite skills upon which to seek additional I.T. certifications available for the computer and networking fields. Two certificate programs in Computer and Networking Technology are also available. Please see the "Certificates" section of the college catalog for descriptions and course requirements.

Requirements for the Major *Required courses:*

| | Total Units | 43.0 | - 44.0 |
|----------|------------------------------|------|--------|
| | for the Technician | | |
| TECH 60 | Customer Relations | 1.0 | |
| ELEC 56 | Digital Electronics | 4.0 | CSU |
| ELEC 50B | Electronic Circuits (AC) | 4.0 | CSU |
| ELEC 50A | Electronic Circuits (DC) | 4.0 | CSU |
| CISB 15 | Microcomputer Applications | 4.0 | CSU,UC |
| | or | | |
| | in Microcomputers | | |
| ELEC 11 | Technical Applications | 3.0 | CSU |
| | Certification Preparation | | |
| CNET 66 | Security+ | 2.0 | |
| | Certification Preparation | | |
| CNET 64 | Server+ | 2.0 | |
| | Certification Preparation | | |
| CNET 62 | Network+ | 2.0 | |
| CNET 60 | A+ Certification Preparation | 2.0 | |
| CNET 58 | Windows Server | 3.0 | |
| CNET 56 | Computer Networks | 4.0 | |
| CNET 54 | PC Troubleshooting | 4.0 | |
| CNET 52 | PC Operating Systems | 4.0 | |
| CNET 50 | PC Servicing | 4.0 | |

Recommended 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 in 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.

Requirements for the Major

| Required o | ourses: | | |
|------------|---------------------------------|-------|--------|
| CISN 11 | Telecommunications | 4.0 | CSU |
| | Networking | | |
| CISN 24 | Window Server Network and | 4.0 | CSU |
| | Security Administration | | |
| CISN 51 | Cisco CCNA Networking | 4.0 | CSU |
| | and Routing | | |
| CISS 21 | Network Vulnerabilities | 4.0 | CSU |
| | and Countermeasures | | |
| CISS 23 | Network Analysis, | | CSU |
| | Intrusim Detection/Prevention S | ystem | IS |
| CISS 25 | Network Security and Firewalls | 4.0 | CSU |
| CISS 29 | CNSAM Service Learning | 1.0 | |
| PLUS | | | |
| Select one | (1) course from: | | |
| CISB 11 | Computer Information Systems | 3.5 | CSU,UC |
| CISN 21 | Windows Operating System | 4.0 | CSU |
| CISN 31 | Linux Operating System | 4.0 | CSU |
| CISN 34 | LINUX Networking and Security | 4.0 | CSU |
| | Total Units | 27.5 | - 28.0 |

Computer Programming

Computer Information Systems Department Major S7302

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.

Coursework 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 | |
| CISP 10 | Object-Oriented Design | 2.0 | |
| BUSM 20 | Principles of Business | 3.0 | |
| | <u>or</u> | | |
| BUSM 25 | Principles of E-Commerce | 3.0 | |
| | <u>or</u> | | |
| BUSA 7 | Principles of Accounting | 5.0 | |
| | - Financial | | |
| CISD 11 | Database Management | 4.0 | |
| | - Microsoft Access | | |
| | <u>or</u> | | |
| CISD 21 | Database Management | 4.0 | |
| | - Microsoft SQL Server | | |
| | <u>or</u> | | |
| CISD 31 | Database Management - Oracle | 4.0 | |
| PLUS | - | | |
| One of the f | ollowing concentrations: | | |
| (++: | | | |
| CISP 31 | Programming in C++ | 4.0 | |
| CISP 34 | Advanced C++ Programming | 4.0 | |
| Visual Basi | | | |
| CISP 11 | Programming in Visual Basic | 4.0 | |
| CISP 14 | Advanced Visual Basic | 4.0 | |
| | | | |
| | | | |

Programming Java:

| | Total Units | 32.0 - 34.0 |
|---------|----------------------------|-------------|
| CISP 44 | Advanced Programming in C# | 4.0 |
| CISP 41 | Programming in C# | 4.0 |
| С#: | | |
| CISP 24 | Advanced Java Programming | 4.0 |
| CISP 21 | Programming in Java | 4.0 |
| Juvu. | | |

Construction Inspection Architecture and Engineering Design Department Major 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.

| - | ARCH 12 | Architectural Materials | 3.0 | CSU |
|---|----------|--------------------------------|------|-----|
| | | and Specifications | | |
| - | 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 | 3.0 | |
| | | Inspection | | |
| | | Total Units | 18.0 | |
| | Recommen | ded Electives: | | |
| | ARCH 11 | Architectural Drawing | | |
| | ARCH 15 | Architectural Working Drawings | 5-1 | |
| | 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 | | 5.0 | |
| | r (4) courses from: | | |
| ADJU 1 | The Administration | 3.0 | CSU,UC |
| | of Justice System | 510 | |
| ADJU 2 | Principles and Procedures | 3.0 | CSU |
| | of the Justice System | | |
| ADJU 20 | Principles of Investigation | 3.0 | CSU |
| ADJU 38 | Narcotics Investigation | 3.0 | |
| ADJU 59 | Gangs and Corrections | 3.0 | CSU |
| CORS 35 | Interviewing and Counseling | 3.0 | |
| | in Corrections | | |
| 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 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 Enfoi | rcement, |

SPAN 66 Spanish for Fire and Police Personnel The Correctional Sciences faculty recommend that 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 Reauired courses:

| nequireu co | /4/ 565. | | |
|---|--|------|----------|
| CHLD 1 | Child, Family and Community | 3.0 | CSU,UC |
| 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 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 | 4.0 | CSU,UC |
| | <u>or</u> | | |
| ENGL 1AH | Freshman Composition - Honors | 4.0 | CSU,UC |
| MATH 71 | Intermediate Algebra | 5.0 | |
| | Total Units | 24.0 | |
| | | | |
| Recommen | ded Electives: | | |
| Recommen CHLD 51 | <i>ded Electives:</i> Early Literacy in Child Developme | ent | |
| | | | Children |
| CHLD 51 | Early Literacy in Child Developme | | Children |
| CHLD 51 CHLD 64 | Early Literacy in Child Developme Health, Safety and Nutrition of Yo | | Children |
| CHLD 51 CHLD 64 LIT 40 PE 3 Electron Electroni Technolo | Early Literacy in Child Developme Health, Safety and Nutrition of Yo Children's Literature First Aid and CPR nics and Computer ering Technology cs and Computer gy Department | | Children |
| CHLD 51 CHLD 64 LIT 40 PE 3 Electron Engine Electroni Technolo Major S0 | Early Literacy in Child Developme Health, Safety and Nutrition of Yo Children's Literature First Aid and CPR nics and Computer ering Technology cs and Computer gy Department | oung | |

employment or for enhancement of existing skills in the

electronics field, or for transfer into B.S. programs in Electronics Technology or Industrial Technology offered in the CSU system. In addition to exposing students to core topics such as components and circuits, the program includes coursework in advanced areas including microcontrollers and interfacing, communications, and industrial electronic controls. Nearly all laboratories have new, state-of-the-art equipment to provide students with quality, hands-on learning experiences.

Students completing ECET degree and certificate programs possess ample skills to make them versatile employees. Typical technician-level job classifications include field service technician, field engineer, computer service technician, customer service technician, communications technician, maintenance technician, and electronics technician. All students completing the degree program are automatically eligible to receive, without further examination, the 3rd class technician license from the National Association of Radio and Telecommunications Engineers (N.A.R.T.E.).

Several certificate programs in electronics technology are also available. Please see the "Certifications" section of the college catalog for descriptions and course requirements. There are no prerequisites or enrollment limitations. **Requirements for the Major Reauired courses:** ELEC 11 Technical Applications 3.0 CSU in Microcomputers ELEC 12 **Computer Simulation** 2.0 and Troubleshooting 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 Industrial Electronics 4.0 CSU ELEC 54A 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 3.0 CSU and Fabrication ELEC 74 Micro Controller Systems 4.0 CSU TECH 60 **Customer Relations** 1.0 for the Technician **Total Units** 44.0 **Recommended Electives:** CISP 11 Programming in Visual Basic EDT 11 Technical Engineering Drawing I Advanced Surface Mount Assembly and Rewo ELEC 62 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 in 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.

| | EMS 1 | Fundamentals for Paramedics | 4.0 |
|------|-----------|---|-------------------|
| | EMS 10 | Anatomy and Physiology | 2.0 |
| | | for Paramedics | |
| | EMS 20 | Emergency Cardiac Care | 1.0 |
| J | | for Paramedics | |
| | EMS 30 | Pharmacology for Paramedics | 2.0 |
| | EMS 40 | Cardiology for Paramedics | 5.0 |
| | EMS 50 | Paramedic Skills Competency | 5.0 |
| J | EMS 60 | EMS Theory for Paramedics | 8.5 |
| J | EMS 70 | Paramedic Clinical Internship | 4.0 |
| J | EMS 80 | Paramedic Field Externship | 9.5 |
| | | Total Units | 41.0 |
| J | | ded Electives: | |
| J | ADJU 1 | The Administration of Justice Sy | ystem |
| | FIRE 1 | Fire Protection Organization | |
| J | PSYC 1A | Introduction to Psychology | |
| J | SOC 1 | Sociology | |
| | | ency Medical Services faculty reco | |
| J | | mplement their studies with sele | |
| | | sen from the list above. Students | |
| | | essor of Emergency Medical Servi mine which electives would best : | |
| | plans. | mine which electives would best | suit their career |
| | r · · · | nformation | |
| | • | | |
| | | in the program, students must n " (80%) or better in all courses, | |
| vork | | . Before starting clinical rotation | |
| | | a criminal background check. | is, students |
| | mast pass | a chilling 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.

Paramedic Program Readmission Policy

If the student fails any of the co-requisite courses, EMS 10 - EMS 60, he/she will be dropped from the programs. If the student wishes to repeat the program, a *Success Plan and Contract* will be developed with the faculty to increase the student's chances of success prior to re-entry. If the student withdraws or is dismissed from the program a second time, he/she will not be allowed to re-enter the Paramedic Program at Mt. SAC.

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.
- 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.

- Successful completion of EMS-1, Fundamentals for Paramedics.
- 7) 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
- *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 EMS program, students must be able to speak, write and read English to ensure patient safety and to complete classes successfully.

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.

| | neguneato | urses. | | | |
|----|-----------|----------------------------------|--------|------|--|
| | EDT 11 | Technical Engineering Drawing I | 3.0 | CSU | |
| | EDT 12 | Technical Engineering Drawing II | 3.0 | CSU | |
| | EDT 14 | Mechanical Design | 3.0 | CSU | |
| | | - Geometric Dimensioning and To | oleran | cing | |
| | EDT 16 | Basic CAD and Computer | 4.0 | CSU | |
| | | Applications | | | |
| es | 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 | | | |
| | EDT 26 | Civil Engineering Technology | 3.0 | CSU | |
| | | and CAD | | | |
| | 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 | led Electives: | | | |
| | EDT 89 | Engineering Design Technology | | | |
| | | Work Experience | | | |
| | ENGR 8 | Properties of Materials | | | |
| | | | | | |
| | | | | | |

| | nent Technology | | Escrow Management | | | Family and Consumer Sciences | | | Fashion Design | | | | |
|---|---|-----------------|------------------------------------|--|-----------------------|--|--|---------------|--|--|----------------------------------|----------|---------|
| Agricultu | Iral Sciences Department | | Business Administration Department | | | Consumer Science and Design Technologies | | | Consumer Science and Design Technologies | | | | |
| Major S0 | | | Major S0 | | | Major S1 | | | | Major S1320 | | | |
| The course | s in equipment technology are d | lesigned to | | am is intended to prepare studen | | | m provides students with the ba | | lls | | nployment opportunities are avai | | in both |
| | dents to prepare for a career in t | | | nt following graduation. Student | | | with the field of family and cons | | | | sign and costume design. In Sout | | |
| | e profession. This degree is part | | | degree (transfer program) should | | | hich includes the needs of the h | | | | the apparel industry and the ent | | |
| | isive Agricultural Sciences progra unique in that most courses pro | | | r or advisor to discuss transferab | inty of courses. | | l its individual members. Studen degree (transfer program) should | | | industry support the largest number of employees and | | | |
| | and are designed to give the st | | | ments for the Major | | a counselo | r or advisor to discuss transferab | lity of | | contribute significantly to the economy of the region. Expand your creative talents with this challenging major | | | |
| | on of practical skills and technica | | Required o | | | | ments for the Major | inty of | courses. | | career of your dreams. Students | | |
| | /ho intend to transfer should me | | BUSA 7 | Principles of Accounting | 5.0 CSU,UC | Required | | | | | degree should consult with a cou | | |
| counselor of | or advisor to check the lower div | vision | | - Financial | | CHLD 10 | Child Growth and Development | 3.0 | csillic | advisor an | d the transfer institution. | | |
| | nts in the catalog of the college | | | <u>or</u> | 5.0 | | or or | 5.0 | C30,0C | Require | ments for the Major | | |
| | will attend and also the semes | ter and year in | BUSA 72 | Bookkeeping - Accounting | 5.0 | CHLD 10H | <u>or</u> Child Growth and Development | 3.0 | csuuc | Required o | | | |
| which cour | rses are offered. | | BUSM 20 | Principles of Business | 3.0 CSU,UC | | - Honors | 5.0 | C30,0C | FASH 8 | Introduction to Fashion | 3.0 | CSU |
| This progra | im is intended to prepare studer | nts to become | BUSM 60 | Human Relations in Business | 3.0 CSU | FASH 10 | Clothing Fundamentals | 3.0 | CSU | FASH 9 | History of Costume and Fashion | 3.0 | CSU |
| | s for entry level positions or skill | | BUSM 66 | Small Business Management | 3.0 CSU | FASH 15 | Fashion Strategies | | CSU | FASH 10 | Clothing Construction I | 3.0 | CSU |
| | ration, service, maintenance and | | BUSO 25 | Business Communications | 3.0 CSU | FASH 17 | Textiles | | CSU,UC | FASH 12 | Clothing Construction II | 3.0 | CSU |
| | and agricultural power equipment | | BUSR 50 | Real Estate Principles | 3.0 CSU | FCS 41 | Life Management | | CSU, UC | FASH 15 | Fashion Strategies | 3.0 | CSU |
| | w are the courses needed to sat | | BUSR 51 | Legal Aspects of Real Estate | 3.0 | FCS 80 | Financial Planning | | CSU | FASH 17 | Textiles | 3.0 | CSU,UC |
| | nts. It is recommended that stud | | BUSR 53 | Real Estate Finance Escrow Procedures I | 3.0 | 103.00 | <u>or</u> | 5.0 | CJU | FASH 20 | Illustration for Fashion | 3.0 | |
| | epartment chairperson, counselo | | BUSR 76 | | 3.0 3.0 | BUSA 71 | <u>Financial Planning</u> | 3.0 | CSU | | and Costume Design | | |
| | cational plan. For additional info tural Sciences Department, ext. | | BUSR 77 | Escrow Procedures II | | ID 10 | Introduction to Interior Design | | CSU | FASH 21 | Patternmaking I | 3.0 | CSU |
| | Mt. SAC Web site at | 4040 | CISB 15 | Microcomputer Applications | 4.0 CSU,UC 4.0 CSU | NF 20 | Principles of Foods With Lab | | CSU | FASH 22 | Fashion Design By Draping | 3.0 | |
| | ac.edu/instruction/sciences/ag | ariculture. | CISI 11 | Computer Keyboarding Total Units | 4.0 CS0 40.0 | 111 20 | <u>or</u> | 5.0 | 000 | FASH 23 | Patternmaking II | 3.0 | |
| | ments for the Major | , | | | 40.0 | NF 62 | Meal Management | 3.0 | CSU | FASH 25 | Fashion Computer-Assisted | 3.0 | CSU |
| Required o | | | | ecommended Electives: | | NF 25 | Essentials of Nutrition | | CSU,UC | | Drawing | | |
| AGAG 1 | Food Production, Land Use | 3.0 CSU,UC | BUSA 8 | Principles of Accounting - Mana | igerial | | or | | | FASH 30 | Fashion Design and Product | 3.0 | |
| | and Politics - A Global Perspect | - | BUSL 18 | Business Law | | NF 25H | Essentials of Nutrition - Honors | 3.0 | CSU,UC | | Development l | | |
| AGAG 59 | Work Experience in Agriculture | | | <u>or</u> | | NF 28 | Cultural and Ethnic Foods | | CSU,UC | FASH 31 | Fashion Design and Product | 3.0 | |
| AGOR 51 | Tractor and Landscape | 3.0 CSU | BUSL 18H | Business Law - Honors | | | Total Units | 30.0 | , | | Development II | | |
| | Equipment Operations | | BUSM 62 | Human Resource Management | | Recommer | ded Electives: | | | FASH 32 | Fashion Design and Product | 3.0 | |
| AGOR 52 | Hydraulics | 3.0 CSU | BUSO 5 | Business English | | CHLD 1 | Child, Family and Community | | | | Development III | | |
| AGOR 53 | Small Engine Repair I | 3.0 CSU | BUSR 52 | Real Estate Practice | | FASH 12 | Advanced Clothing | | | | Total Units | 42.0 | |
| AGOR 54 | Small Engine Repair II | 3.0 CSU | | <u>or</u> Real Estate Practice Work Exper | i | ID 29 | Interior Design Studio I | | | Recommen | nded Electives: | | |
| AGOR 55 | Diesel Engine Repair | 3.0 CSU | BUSR 52D BUSR 57 | Income Tax Aspects of Real Esta | | ID 20 | Color and Design Theory I | | | FASH 24 | Fashion Patternmaking by Com | outer | |
| AGOR 56 | Engine Diagnostics | 3.0 CSU | PSYC 1A | Introduction to Psychology | | 10 20 | color and besign meory r | | | FASH 26 | Fashion Computer Assisted Desi | <i>.</i> | |
| AGOR 57 | Power Train Repair | 3.0 | PSICIA | | | | | | | FASH 35 Special Topics in Fashion Design | | | |
| AGOR 71 | Landscape Construction | 3.0 CSU | PSYC 1AH | <u>or</u> Introduction to Psychology - Ho | nors | | | | | FASH 81 | Work Experience in Fashion | | |
| | Fundamentals | | | | | | FASH 90 | Field Studies | | | | | |
| AGOR 72 Landscape Hardscape Applications3.0 CSU | | | | | | | | | FASH 91 | Field Studies - New York | | | |
| CISB 15 Microcomputer Applications 4.0 CSU,UC | | | | | | | | | FASH 92 | Field Studies - Fashion Capitals | | | |
| | Total Units | 35.0 - 38.0 | | | | | | | | FCS 41 | Life Management | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
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| | | | | | | 1 | | | 1 | | |
|--|----------------------------------|----------|--|---|------------------|--|-------------------------------------|--------------------|------------------------------|--|---|
| Fashion Merchandising Consumer Science and Design Technologies Major S1308 This program is intended to prepare students for employment in the fashion industry. A variety of career opportunities are available in retail merchandising, manufacturing, fashion, promotion, and self- employment. Students intending to pursue a bachelor's degree (transfer program) should consult with a counselor or advisor to discuss transferability of courses. | | | Fire Tec Major S The Fire S employm desires to the empl education degree (t | Fire Technology Fire Technology Department Major S2105 The Fire Science major has been developed to offer pre- employment 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. | | Fire Technology - Administrative Law Fire Technology Department Major S2108 The Fire Science major has been developed to offer pre- employment 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 | | | BUSA BUSC BUSL BUSM | Business English Business Communications Principles of Marketing Microcomputer Applications 6) units from: | 3.0 3.0 CSU 3.0 CSU 4.0 CSU,UC |
| Require | ments for the Major | | Require | ements for the Major | | | or advisor to discuss transferabili | | BUSS | | |
| Required | | | Required | | | Require | ments for the Major | | CISB | | |
| FASH 8 | Introduction to Fashion | 3.0 CSU | FIRE 1 | Fire Protection Organization | 3.0 CSU | Required of | | | | Total Units | 42.0 |
| 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 | | - Financial | | | ic Design | |
| FASH 15 | Fashion and Identity | 3.0 CSU | | and Systems | | CISB 11 | Computer Information Systems | 3.5 CSU,UC | | cial and Entertainment | |
| FASH 17 | Textiles | 3.0 CSU, | JC FIRE 4 | Building Construction | 3.0 CSU | FIRE 1 | Fire Protection Organization | 3.0 CSU | | partment | |
| FASH 25 | Fashion Computer-Assisted | 3.0 CSU | | for Fire Protection | | FIRE 2 | Fire Prevention Technology | 3.0 CSU | Major SC | | te for coroore in |
| | Drawing | | FIRE 5 | Fire Behavior and Combustion | 3.0 CSU | FIRE 8 | Fire Company Organization | 3.0 CSU | | im is designed to prepare studer c Design field of Commercial Art | |
| FASH 30 | Fashion Design and Product | 3.0 | FIRE 6 | Hazardous Materials/ICS | 3.0 | | and Management | | | balanced blend of creative, desi | |
| | Development I | | PLUS | | | FIRE 40 | Fire Prevention 1A | 2.0 | | skills necessary to develop succ | |
| FASH 62 | Retail Store Management | 3.0 CSU | Select tw | o (2) courses from: | | FIRE 41 | Fire Prevention 1B | 2.0 | | print, web, and other media cha | |
| | and Merchandising | | EMT 90 | Emergency Medical Technician | l 10.5 | | Total Units | 21.5 | | software is industry standard a | |
| | <u>or</u> | | FIRE 7 | Fire Fighting Tactics and Strate | gy 3.0 CSU | | | | | driven by industry needs. | |
| BUSS 50 | Retail Store Management | 3.0 CSU | FIRE 8 | Fire Company Organization | 3.0 CSU | Gener | al Business | | | ments for the Major | |
| | and Merchandising | | | and Management | | | ing and Management Dep | artment | Required of | | |
| FASH 63 | Advertising and Promotion | 3.0 CSU | FIRE 9 | Fire Hydraulics | 3.0 CSU | Major S | | untinent | ARTC 100 | Graphic Design I | 3.0 |
| | <u>or</u> | | FIRE 10 | Arson and Fire Investigation | 3.0 CSU | | am is intended to prepare studer | nts for | ARTC 120 | Graphic Design II | 3.0 |
| BUSS 33 | Advertising and Promotion | 3.0 CSU | FIRE 11 | Fire Apparatus and Equipment | 3.0 CSU | | nt following graduation. Studen | | ARTC 160 | Typography | 3.0 |
| FASH 66 | Visual Merchandising Display | 3.0 CSU | FIRE 12 | Wildland Fire Control | 4.5 CSU | | degree (transfer program) shoul | | ARTC 165 | Illustration | 3.0 |
| | Total Units | 30.0 | FIRE 86 | Basic Fire Academy | 14.5 | | or or advisor to discuss transferab | | ARTC 290 | Portfolio | 3.0 |
| Recomme | nded Electives: | | PE-F 53 | Physical Training | 2.5 CSU | Require | ments for the Major | | ARTD 15A | Drawing: Beginning | 3.0 |
| FASH 90 | Field Studies | | | for the Basic Fire Academy | | Required | | | ARTD 17A | Drawing: Life | 3.0 |
| FASH 91 | Field Studies - New York | | | Total Units | 23.5 - 43.0 | BUSA 7 | Principles of Accounting | 5.0 CSU,UC | ARTD 20 | Design: Two Dimensional | 3.0 |
| FASH 91 FASH 92 | Field Studies - Fashion Capitals | | Recomm | ended Electives: | | | - Financial | - | ARTD 25A | Painting: Beginning | 3.0 |
| FCS 41 | Life Management | | PE-F 50 | Physical Skills Preparation for A | dministration | | or | | PLUS | ranning. Deginning | 5.0 |
| FC3 41 | Life Management | | r L-I JU | of Justice and Fire Technology | unninstration | BUSA 72 | Bookkeeping - Accounting | 5.0 | | (1) course from: | |
| | | | | or or | | BUSL 18 | Business Law | 3.0 CSU,UC | AHIS 5 | History of Western Art: | 3.0 |
| | | | PE-F 51 | Agility Testing Preparation for <i>I</i> | Administration | | <u>or</u> | | | Renaissance Through Modern | |
| | | | | of Justice and Fire Technology | haiministration | BUSI 18H | Business Law - Honors | 3.0 CSU,UC | AHIS 5H | History of Western Art: | 3.0 |
| | | | | <u>or</u> | | BUSM 10 | Principles of Continuous | 3.0 | | Renaissance Through Modern | |
| | | | PE-F 52 | Fitness and Conditioning for Ac | Iministration of | 5051110 | Quality Improvement | 5.0 | AHIS 6 | History of Modern Art | 3.0 |
| | | | 121 32 | Justice, Fire Technology, and Fo | | BUSM 20 | Principles of Business | 3.0 CSU,UC | AHIS 6H | History of Modern Art - Honor | s 3.0 |
| | | | | sustice, the recimology, dilu to | icou y | BUSM 20 | Human Relations in Business | 3.0 CSU,0C | | Total Units | 30.0 |
| | | | | | | BUSM 60 BUSM 61 | Business Organization | 3.0 CSU 3.0 CSU | | | |
| | | | | | | וטואכטט | • | 2.0 (20 | | | |
| | | | | | | DIGMON | and Management | 20 | | | |
| | | | | | | BUSM 62 | Human Resource Management | 3.0 | | | |

| Recommended Electives: | | | | | | | |
|------------------------|--------------------------------------|--|--|--|--|--|--|
| AHIS 4 | History of Western Art: | | | | | | |
| | Prehistoric Through Gothic | | | | | | |
| ANIM 172 | Motion Graphics with After Effects | | | | | | |
| ANIM 175 | Web Animation with Flash | | | | | | |
| ARTC 140 | Graphic Design III | | | | | | |
| ARTC 299 | Work Experience | | | | | | |
| | in Advertising Design / Illustration | | | | | | |
| ARTD 16 | Drawing: Perspective | | | | | | |
| ARTD 45A | Printmaking: Silk-Screening | | | | | | |
| ARTS 22 | Design: Three Dimensional | | | | | | |
| PHOT 10 | Basic Digital and Film Photography | | | | | | |
| | | | | | | | |

Histologic Technician Training Biological Sciences Department Maior 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 histotechnology will work through study guides provided by the American Society of Clinical Pathologists (ASCP) for its certification examination. Partnerships with local facilities will allow for work experience and internship sites, required for certification of histotechnology graduates, and will provide further training for those interested in research and/or careers in the private sector.

Requirements for the Major Required courses:

| ANAT 10B | Introductory Human Physiology | 4.0 | CSU,UC | em |
|----------|-----------------------------------|-----|--------|-----|
| | <u>or</u> | | | bad |
| ANAT 36 | Human Physiology | 5.0 | CSU,UC | the |
| ANAT 35 | Human Anatomy | 5.0 | CSU,UC | dis |
| CHEM 10 | Chemistry for Allied | 4.0 | CSU,UC | fle |
| | Health Majors | | | spe |
| | <u>or</u> | | | agr |
| CHEM 40 | Introduction to General Chemistry | 4.0 | CSU, | Re |
| | UC | | | Rea |
| | <u>or</u> | | | AG |
| CHEM 50 | General Chemistry I | 5.0 | CSU,UC | |
| | <u>or</u> | | | AG |
| CHEM 50H | General Chemistry I - Honors | 5.0 | CSU,UC | |
| HT 1 | Introduction to Histotechnology | 1.0 | | AG |
| HT 2 | Scientific Basics for | 3.0 | | |
| | Histologic Technicians | | | AG |
| HT 10 | Histology | 3.0 | | |

| HT 12 | Beginning Histotechniques | 5.0 | | A |
|---------|----------------------------|---------------|--------|---|
| HT 14 | Advanced Histotechniques | 4.0 | | A |
| HT 16 | Histochemistry/ | 4.0 | | A |
| | Immunohistochemistry | | | A |
| HT 17 | Work Experience | 4.0 | | A |
| | In Histotechnology | | | A |
| MICR 1 | Principles of Microbiology | 5.0 | CSU,UC | A |
| | <u>or</u> | | | A |
| MICR 22 | Microbiology | 4.0 | CSU,UC | |
| | Total Units | 41.0 · | 44.0 | A |
| | | | | |

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 nployment following graduation. Students desiring a achelor's degree (transfer program) should consult with e department chairperson or counselor or advisor to scuss transferability of courses. The curriculum is exible in nature to allow for previous experience and pecialization in a given area of agriculture and pricultural business. equirements for the Major equired courses: Microcomputer Applications 3.0 CSU.UC GAB 20 in Aariculture Work Experience in Agriculture 1.0 GAG 59 or Work Experience in Agriculture 2.0 GAG 60 Work Experience in Agriculture 3.0 iAG 61 or

| AGAG 62 | Work Experience in Agriculture | 4.0 | |
|---------|--------------------------------|-----|--------|
| AGAN 2 | Animal Nutrition | 3.0 | CSU |
| AGAN 94 | Animal Breeding | 3.0 | |
| AGLI 16 | Horse Production | 4.0 | CSU,UC |
| AGLI 18 | Horse Ranch Management | 4.0 | CSU |
| AGLI 19 | Horse Hoof Care | 2.0 | CSU |
| AGLI 20 | Horse Behavior and Training | 2.0 | |
| AGLI 96 | Animal Sanitation | 3.0 | CSU |
| | and Disease Control | | |
| AGLI 97 | Artificial Insemination | 2.0 | |
| | of Livestock | | |
| PLUS | | | |

Select six (6) units from:

| AGHE 84A | Applied Animal Health Procedures | 1.0 | |
|----------|----------------------------------|------|--------|
| AGOR 53 | Small Engine Repair I | 3.0 | CSU |
| AGOR 71 | Landscape Construction | 3.0 | CSU |
| | Fundamentals | | |
| 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 |
| HRM 53 | Dining Room Service Management | 3.0 | CSU |
| HRM 54 | Basic Cooking Techniques | 3.0 | CSU |
| HRM 56 | Management of Hospitality | 3.0 | CSU |
| | Personnel and Operations | | |
| HRM 57 | Restaurant Cost Control | 3.0 | CSU |
| HRM 64 | Hospitality Financial Accounting 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 |
| HRM 62 | Catering | 3.0 | CSU |
| HRM 91 | 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 | t/Hospit | ality |
| | | | |

Human Resource Management Accounting and Management Department Major 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 Reauired courses:

| CISB 15 | Microcomputer Applications | 4.0 | CSU,UC |
|---------|-------------------------------|-----|--------|
| BUSO 25 | Business Communications | 3.0 | CSU |
| BUSM 62 | Human Resource Management | 3.0 | |
| | and Management | | |
| BUSM 61 | Business Organization | 3.0 | CSU |
| BUSM 60 | Human Relations in Business | 3.0 | CSU |
| BUSM 20 | Principles of Business | 3.0 | CSU,UC |
| BUSL 19 | Advanced Business Law | 3.0 | CSU,UC |
| BUSA 70 | Payroll and Tax Accounting | 3.0 | |
| ANTH 22 | General Cultural Anthropology | 3.0 | CSU,UC |

PROGRAMS LEADING

Integrated Pest Management Agricultural Sciences Major 50311

The Integrated Pest Management Program is part of the Agricultural Science Program and prepares students to design and implement comprehensive integrated pest management programs for private or public entities. It qualifies students to take the Pest Control Advisor (PCA) exam administered by the California Department of Pesticide Regulation. Pest Control Advisers provide written recommendations for the application of pesticides. Students learn how to design, install, and manage irrigation systems, set up and implement fertilizer and pest management programs, and properly identify and maintain trees, shrubs, and turf grasses. Students also learn personal management and budgeting skills. Most courses in the program provide hands-on experiences designed to give students a combination of practical skills and technical knowledge. Students who intend to transfer should meet with a counselor or advisor to review lower-division requirements of the college or university they plan to attend. **Requirements for the Major Required courses:** AGOR 1 Horticulture Science 3.0 AGOR 24 Integrated Pest Management 3.0 Ornamental Plants - Herbaceous 3.0 AGOR 29 AGOR 30 **Ornamental Plants** 3.0 - Trees and Woody Shrubs AGOR 39 **Turfgrass Production** 3.0 and Management AGOR 50 Soil Science and Management 3.0 AGOR 62 Landscape Irrigation - Design 3.0 and Installation AGOR 63 Landscape Irrigation Systems 3.0 Management AGOR 91 Work Experience in Nursery 3.0 Operations PLUS Student must take at least 6 units of any of the following: BIOL 1, 2, 3, 4, 4H, 6, 6L, 8, 20, 21, 34, 50; BTNY 3; CHEM 10, 20, 40 50, 50H, 51, 60, 80, 81 PLUS Student must take 9 units from the following list: AGOR 2 **Plant Propagation** 3.0 Interior Landscaping 3.0 AGOR 15 AGOR 32 Landscaping 3.0 and Nurserv Management AGOR 40 Sports Turf Management 3.0

Interior Design

Consumer Science and Design Technologies Major S1301

The Interior Design A.S. degree provides students with an excellent foundation for a successful career in interior design. Students will obtain the skill sets necessary to obtain a variety of positions in the design field. Students desiring a bachelor's degree should consult with a counselor, advisor or faculty member in the interior design program to discuss transfer options.

Requirements for the Major *Required courses:*

| ID 10 | Introduction to Interior Design | 3.0 CSU |
|---------|--|---------|
| ID 12 | Interior Materials and Products | 3.0 CSU |
| ID 14 | History of Furniture | 3.0 |
| | and Decorative Arts | |
| ID 20 | Color and Design Theory I | 3.0 |
| ID 21 | Color and Design Theory II | 3.0 |
| ID 22 | Design Drawing for Interior Design | 3.0 |
| ID 23 | Computer Aided Drawing for Interior Design | 3.0 |
| ID 25 | Codes and Specifications for Interior Design | 3.0 |
| ID 26 | Space Planning for Interior Design | 3.0 |
| ID 27 | Rapid Visualization | 3.0 |
| ID 29 | Interior Design Studio I | 3.0 |
| ID 31 | Building Systems | 3.0 |
| 10.22 | for Interior Design | |
| ID 32 | Lighting Design | 3.0 |
| ID 34 | Computer Aided Drawing for Interior Design II | 3.0 |
| ID 36 | Professional Practices for Interior Design | 3.0 |
| | or | |
| ID 37 | Business Practices | 3.0 |
| | for Interior Design | |
| ID 38 | Internship in Interior | 2.0 |
| | Design (1-3 unit course, 2 units re | - |
| ID 39 | Interior Design Studio II | 3.0 |
| | | 50.0 |
| | ded Electives: | |
| AGOR 13 | Interior Landscaping | |
| AGOR 15 | Landscaping Design | |
| ARCH 23 | Architectural Presentations | |
| ARTG 20 | Exhibition Design | |
| BUSA 72 | Bookkeeping - Accounting | |
| ID 50 | Interior Design Specialized Studio | |
| ID 52 | Interior Design Laboratory Studie | S |

Interior Design - Kitchen and Bath Design Consumer Science and Design Technologies

Major S1302

The Interior Design: Kitchen and Bath Design A.S. degree provides students with specialized skills in the area of Kitchen and Bath Design and is accredited by the National Kitchen and Bath Association. Students will strengthen career perspectives and develop work to incorporate into a professional portfolio. This certificate may aid in the student's search for an intermediate position as an assistant to a kitchen and bath designer. Students completing this program and meeting the eligibility requirements will qualify to sit for the academic portion of the Certified Kitchen Designer (CKD) and Certified Bath Designer (CBD) upon graduation to earn the Associate Kitchen and Bath Designer (AKBD) designation.

Requirements for the Major *Required courses:*

| D 10 | Introduction to Interior Design | 3.0 | CSU |
|------|--|-------|-------|
| D 12 | Interior Materials and Products | 3.0 | CSU |
| D 14 | History of Furniture and Decorativ | e Art | s 3.0 |
| D 20 | Color and Design Theory I | 3.0 | |
| D 21 | Color and Design Theory II | 3.0 | |
| D 22 | Design Drawing for Interior Desig | n3.0 | |
| D 23 | Computer Aided Drawing for | | |
| | Interior Design | 3.0 | |
| D 25 | Codes and Specifications | 3.0 | |
| | for Interior Design | | |
| D 26 | Space Planning for Interior Design | 3.0 | |
| D 27 | Rapid Visualization | 3.0 | |
| D 29 | Interior Design Studio I | 3.0 | |
| D 31 | Building Systems | 3.0 | |
| | for Interior Design | | |
| D 32 | Lighting Design | 3.0 | |
| D 34 | Computer Aided Drawing for Interior Design II | 3.0 | |
| D 36 | Professional Practices for Interior Design | 3.0 | |
| | or | | |
| D 37 | Business Practices | 3.0 | |
| | for Interior Design | | |
| D 38 | Internship in Interior Design | 2.0 | |
| | (1-3 unit course, 2 units required) | | |
| D 39 | Interior Design Studio II | 3.0 | |
| D 40 | Kitchen and bath Studio I | 3.0 | |
| D 41 | Kitchen and bath Studio II | 3.0 | |
| | | | |
| | | | |

| 10 10 | | |
|----------|---|---|
| | (1-3 unit course, 2 units required) | |
| | Total Units 58.0 | |
| Recommen | ded Electives: | |
| ARCH 23 | Architectural Presentations | |
| BUSA 72 | Bookkeeping - Accounting | |
| BUSM 66 | Small Business Management | |
| BUSS 50 | Retail Store Management and Merchandising | g |
| ID 50 | Interior Design Specialized Studio | |
| ID 52 | Interior Design Laboratory Studies | |
| | | |

Internship in Kitchen and Bath 2.0

International Business

ID 48

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 *Required courses:*

| negunea | an ses. | | |
|---------|--------------------------------|------|--------|
| BUSL 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 | 3.0 | CSU |
| | Business | | |
| BUSM 52 | Principles of Exporting | 3.0 | CSU |
| | and Importing | | |
| BUSM 61 | Business Organization | 3.0 | CSU |
| | and Management | | |
| BUSM 66 | Small Business Management | 3.0 | CSU |
| BUSS 36 | Principles of Marketing | 3.0 | CSU |
| PLUS | | | |
| | (1) course from: | | |
| BUSS 70 | International Marketing Concer | | |
| CHIN 1 | Beginning Chinese | 4.0 | CSU,UC |
| FRCH 1 | Elementary French | 4.0 | |
| GERM 1 | Elementary German | 4.0 | CSU,UC |
| ITAL 1 | Elementary Italian | 4.0 | CSU,UC |
| JAPN 1 | Elementary Japanese | 4.0 | |
| SPAN 1 | Elementary Spanish | | CSU,UC |
| | Total Units | 27.0 | - 28.0 |
| | ded Electives: | | |
| BUSM 81 | Work Experience in Business | | |
| BUSM 85 | Special Issues in Business | | |
| BUSS 85 | Special Issues in Marketing | | |
| | | | |

80 2011-12 Mt. San Antonio College Catalog

3.0

42.0

Urban Arboriculture

Total Units

AGOR 75

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:*

| ADJU 1 | The Administration | 3.0 | CSU,U |
|---------|---------------------------|-----|-------|
| | of Justice System | | |
| ADJU 2 | Principles and Procedures | 3.0 | CSU |
| | of the Justice System | | |
| 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 | 3.0 | |
| | Report Writing | | |
| | | | |

PLUS

| Select four | r (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 and 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 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 | |
| | ed Vocational Nurse Department 1201 | to R | N |

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 coursework in nursing, science, general education and clinical nursing practice at local hospitals and health agencies. Graduates of the program receive an Associate in 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 in 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 | Asepsis | 5 |
| NURS 8 | Medical-Surgical Nursing: | 5.5 | CSU |
| | Circulation and Oxygenation | | |
| | | | |

| and enter a baccalaureate program in nursing will need to complete ANAT 35 and ANAT 36 instead of ANAT 10A | | | | | | |
|---|---|------|-------------------------|--|--|--|
| NOTE: Appl | NOTE: Applicants planning to continue their education | | | | | |
| SPCH 1AH | Public Speaking - Honors Total Units | | CSU,UC - 31.0 | | | |
| CDCU 4AV | <u>or</u> | 4.6 | course | | | |
| SPCH 1A | Public Speaking | 4.0 | CSU,UC | | | |
| PSYC 1A | Introduction to Psychology | 3.0 | CSU,UC | | | |
| PSYC 14 | <u>or</u> Developmental Psychology | | CSU,UC | | | |
| CHLD 10H | or Child Growth and Development - Honors | 3.0 | CSU,UC | | | |
| CHLD 10 | Child Growth and Development | 3.0 | CSU,UC | | | |
| ENGL 1AH | <u>or</u> Freshman Composition - Honors | 4.0 | CSU,UC | | | |
| ENGL 1A | Freshman Composition | 4.0 | CSU,UC | | | |
| MICR 22 | <u>or</u> Microbiology | 4.0 | CSU,UC | | | |
| MICR 1 | Principles of Microbiology | 5.0 | CSU,UC | | | |
| ANAT 10B | and Introductory Human Physiology | 4.0 | CSU,UC | | | |
| ANAT 10A | <u>or</u> Introductory Human Anatomy | 4.0 | CSU,UC | | | |
| ANAT 36 | <u>and</u> Human Physiology | 5.0 | CSU,UC | | | |
| ANAT 35 | Human Anatomy | 5.0 | CSU,UC | | | |
| Requiren | nents for the Major | | | | | |
| | | 29.0 | | | | |
| NURS 11 | Integration/Regulation Preceptorship in Nursing | 2.0 | CSU | | | |
| NURS 10 | Medical-Surgical Nursing: | 4.0 | CSU | | | |
| NURS 9 | Leadership in Nursing | 1.0 | CSU | | | |

to complete ANAT 35 and ANAT 36 instead of ANAT 10, 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. 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:

Procedure:

- 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
- 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:

- <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, rac 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 criterion for admission into the Licensed Vocational Nurse to RN Program, students must be able to speak, write and read English to ensure patient safety and to complete classes successfully.

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 major 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 Major

| Required courses: |
|-------------------|
|-------------------|

| AGAB 20 | Microcomputer Applications in Agriculture | 5.0 | CSU,UC | Require Required |
|--|--|---------------------------------|--|--|
| AGAG 1 | Food Production, Land Use and Politics - A Global Perspective | | CSU,UC | MFG 10 |
| AGAG 59 AGAG 91 AGAN 1 AGAN 2 AGAN 94 | Work Experience in Agriculture Agricultural Calculations Animal Science Animal Nutrition Animal Breeding | 3.0 3.0 3.0 3.0 3.0 | – 4.0 CSU,UC CSU | MFG 11 MFG 12 MFG 15 MFG 17 |
| AGLI 14 AGLI 16 AGLI 17 AGLI 30 AGLI 34 AGLI 96 | Swine Production Horse Production Sheep Production Beef Production Livestock Judging and Selection Animal Sanitation and Disease Control | 3.0 4.0 3.0 3.0 | CSU CSU,UC CSU CSU CSU,UC CSU | MFG 19 MFG 38 MFG 38B MFG 39 MFG 39B MFG 85 |
| PLUS Select six (AGOR 53 | 6) units from: Small Engine Repair I | 3.0 | CSU | PLUS Select two MFG 25 |

| | Total Units | 43.0 | - 46.0 |
|---------|---------------------------|------|--------|
| BUSS 36 | Principles of Marketing | 3.0 | CSU |
| BUSS 35 | Professional Selling | 3.0 | CSU |
| BUSM 66 | Small Business Management | 3.0 | CSU |
| BUSM 20 | Principles of Business | 3.0 | CSU,UC |
| | Fundamentals | | |
| AGOR 71 | Landscape Construction | 3.0 | CSU |

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.

3.0

2.0

Requirements for the Major Required courses: MFG 10 Mathematics and Blueprint Reading for Manufacturing

| 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 | MasterCAM II | 2.0 | CSU | | | | |
| MFG 39 | SurfCAM I | 2.0 | CSU | | | | |
| MFG 39B | SurfCAM II | 2.0 | CSU | | | | |
| MFG 85 | Manual Computerized | 2.0 | CSU | | | | |
| | Numerical Control (CNC) Program | nmin | g | | | | |
| PLUS | | | | | | | |
| Select two (2) course from: | | | | | | | |
| | | | | | | | |

Advanced Parametric Solid

Modeling for Manufacturing MFG 27 Autodesk Inventor 2.0 WELD 40 Introduction to Welding 2.0 CSU Total Units 27.0

Marketing Management Business Administration Department Major S0510

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 co | ourses: | | |
|-------------|--------------------------------|--------|--------|
| BUSA 7 | Principles of Accounting | 5.0 | CSU,UC |
| | - Financial | | |
| | <u>or</u> | | |
| BUSA 72 | Bookkeeping - Accounting | 5.0 | |
| BUSM 20 | Principles of Business | 3.0 | CSU,UC |
| BUSM 61 | Business Organization | 3.0 | CSU |
| | and Management | | |
| BUSO 25 | Business Communications | 3.0 | CSU |
| BUSS 35 | Professional Selling | 3.0 | CSU |
| BUSS 36 | Principles of Marketing | 3.0 | CSU |
| BUSS 70 | International Marketing Concep | ts 3.0 | |
| BUSS 85 | Special Issues in Marketing | 2.0 | |
| CISB 15 | Microcomputer Applications | 4.0 | CSU,UC |
| PLUS | | | |
| | (1) course from: | | |
| BUSC 1A | Principles of Economics | 3.0 | CSU,UC |
| | - Macroeconomics | | |
| | <u>or</u> | | |
| BUSC 1AH | Principles of Economics | 3.0 | CSU,UC |
| | - Macroeconomics - Honors | | |
| BUSC 1B | Principles of Economics | 3.0 | CSU,UC |
| | - Microeconomics | | |
| | <u>or</u> | | |
| BUSC 1BH | Principles of Economics | 3.0 | CSU,UC |
| | - Microeconomics - Honors | | |
| 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 in 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:

| Special I | nformation | | |
|-----------|---|---------|---------------|
| | | 54.0 | |
| PSYC 1AH | Introduction to Psychology - Honors | 3.0 | CSU,UC |
| PSYC 1A | Introduction to Psychology or | 3.0 | CSU,UC |
| | in Mental Health Technology | 2.0 | <u>ccu uc</u> |
| MENT 82 | Work Experience | 2.0 | |
| | for Psychiatric Technicians | | |
| MENT 73T | Psychiatric Nursing | 6.0 | |
| | for Psychiatric Technicians Clinica | | |
| MENT 73L | Psychiatric Nursing | 5.5 | |
| | Developmentally Disabled Person | ı - Cli | nical |
| MENT 72L | Nursing Care of the | 5.5 | |
| | Developmentally Disabled Persor | 1 | |
| MENT 72 | Nursing Care of the | 7.0 | |
| | Technology Clinical Technicians | 2.0 | |
| MENT 70L | Introduction to Psychiatric | 2.0 | |
| | Technology | 1.5 | |
| MENT 70 | Introduction to Psychiatric | 1.5 III | licdi |
| WENT JOL | Advanced Medical - Surgical Nursing for Psychiatric Techniciar | | vical |
| MENT 58L | Nursing and Pharmacology for P | 1.5 | |
| MENT 58D | Advanced Medical - Surgical | 4.0 | |
| MENT 56L | Clinical Experience | 4.0 | |
| | for Psychiatric Technicians | | |
| MENT 56 | Medical - Surgical Nursing | 9.0 | |
| | and Counseling | | |
| MENT 40 | Introduction to Interviewing | 3.0 | |

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
- <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 criterion for admission into the Mental Health Technology-Psychiatric Technician Program, students must be able to speak, write and read English to ensure patient safety and to complete classes successfully.

Nursing

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 coursework in nursing, science, general education and clinical nursing practice at local hospitals and health agencies. Graduates of the program receive an Associate in 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.
- 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 courses:

| Required co | urses: | | |
|-------------|---|----------------|---------------|
| NURS 1A | The Nursing Process I | 5.0 | CSU |
| NURS 1B | The Nursing Process II | 5.0 | CSU |
| NURS 2 | Pharmacology | 2.0 | CSU |
| NURS 3 | Medical-Surgical Nursing: | 3.5 | CSU |
| | Locomotion/Sensation/ | | |
| | Integument/Oncology/Immuno | | |
| 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: Nutrition/Elimination/Surgical A | 7.5 Asepsis | CSU |
| NURS 8 | Medical-Surgical Nursing: | 5.5 | CSU |
| | Circulation and Oxygenation | | |
| 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 | 44.5 | |
| Requiren | nents for the Major | | |
| ANAT 35 | Human Anatomy | 5.0 | CSU,UC |
| 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 | | CSU,UC |
| MICR 1 | Principles of Microbiology <u>or</u> | 5.0 | CSU,UC |
| MICR 22 | Microbiology | 4.0 | CSU,UC |
| ENGL 1A | Freshman Composition or | 4.0 | CSU,UC |
| ENGL 1AH | Freshman Composition - Honors | 4.0 | CSU,UC |
| CHLD 10 | Child Growth and Development | | CSU,UC |
| | or | | |
| CHLD 10H | Child Growth and Development - Honors | 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 or | 4.0 | CSU,UC |
| SPCH 1AH | <u>Dr</u> Public Speaking - Honors | 4.0 | CSU,UC |
| 5. CH 1111 | Total Units | | - 31.0 |
| | | | 2 |

PSYC 1A must be completed prior to entrance into NURS 5: Psychiatric Nursing. CHLD 10, or PSYC 14 must be completed prior to entrance into NURS 6: Pediatric Nursing.

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.

Application Process:

Due to the high demand of nursing applications, Mt. San Antonio College Associate Degree Nursing Program will be temporarily suspending applications for the Fall 2011 and Spring 2012 semesters. We will be revising the application process on an as-needed basis. Please check the Nursing Web site (*http://www.mtsac.edu/instruction/techhealth/nursing*) frequently for updates and information. 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, 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
 <u>Depth perception</u>: ability to judge distance and space relationships
- 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 criterion for admission into the Nursing Program, students must be able to speak, write and read English to ensure patient safety and to complete classes successfully.

Ornamental Horticulture Agricultural Sciences Department Major 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:

| Required co | urses: | | |
|-------------|---------------------------------------|-------|--------|
| AGAG 1 | Food Production, Land Use | 3.0 | 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 | | |
| PLUS | | | |
| • • |) 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 Applications | | CSU |
| AGOR 75 | Urban Arboriculture | 3.0 | |
| CISB 15 | Microcomputer Applications | 4.0 | CSU,UC |
| | Total Units 4 | 3.0 | 46.0 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

Paralegal/Legal Assistant Business Administration

Major S0310

The paralegal 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 gualified 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 California Business & Professions Code, §6450 et seq, governs paralegals in California. **Requirements for the Major Required courses:** PLGL 30 Introduction to Paralegal 3.0 CSU PLGL 31A Legal Analysis and Writing 3.0 PLGL 31B Advanced Legal Analysis 3.0 CSU and Writing PLGL 33A Civil Procedure - Pre-Trail 3.0 CSU PLGL 33B Civil Procedure - Trial 3.0 CSU and Post-Trail PLGL 35A Law Office Procedures 3.0 CSU PLGL 35B Automated Law Office Procedures 3.0 CSU PLGL 37 3.0 CSU Tort Law PLGL 38 Employment and Ethical Issues 2.0 CSU in Paralegalism PLGL 39 Contract Law 3.0 CSU PLUS Choose two courses from: PLGL 40 Landlord-Tenant Law 3.0 CSU PLGL 41 3.0 CSU Property Law PLGL 42 Family Law 3.0 CSU PLGL 43 Wills and Trusts 3.0 CSU PLGL 44 Bankruptcy Law 3.0 CSU PLGL 45 Creditor's Rights 3.0 CSU 3.0 CSU PLGL 48 Criminal Law and Procedures PLGL 49 Evidence Law 3.0 CSU PLGL 50 **Comparative Law** 3.0 BUSL 18 **Business Law** 3.0 CSU,UC <u>or</u> 3.0 CSU, UC BUSL 18H Business Law - Honors 3.0 CSU, UC BUSL 19 Advanced Business Law BUSL 20 International Business Law 3.0

Total Units

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

Park Facilities

Park Management

Landscape Design

Ornamental Plants

Turf Grass Production

and Management

Integrated Pest Management

- Trees and Woody Shrubs

Sports Turf Management

Tractor and Landscape

Equipment Operations Landscape Irrigation

- Design and Installation

Landscape Irrigation

Fundamentals

Landscaping Laws,

Urban Arboriculture

in Nursery Operations

Work Experience

Total Units

Systems Management

Landscape Construction

Contracting and Estimating

Soil Science and Management

Ornamental Plants - Herbaceous 3.0 CSU,UC

3.0

3.0

3.0 CSU

3.0 CSU

3.0 CSU,

3.0 CSU

3.0 CSU

3.0 CSU

3.0 CSU

3.0 CSU

3.0

3.0

3.0

3.0

1.0 - 4.0

46.0 - 49.0

Required courses:

AGOR 4

AGOR 5

AGOR 13

AGOR 24

AGOR 29

AGOR 30

AGOR 39

AGOR 40

AGOR 50

AGOR 51

AGOR 62

AGOR 63

AGOR 71

AGOR 73

AGOR 75

AGOR 91

35.0

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.

| UC | AGAB 20 | Microcomputer Applications | 3.0 | CSU,UC |
|----|---------|-----------------------------------|--------|--------|
| | | in Agriculture | | |
| | AGAN 1 | Animal Science | 3.0 | CSU,UC |
| | AGAN 2 | Animal Nutrition | 3.0 | CSU |
| | AGAN 51 | Animal Handling and Restraint | 3.0 | CSU |
| | AGAN 94 | Animal Breeding | 3.0 | |
| | AGLI 96 | Animal Sanitation | 3.0 | CSU |
| | | and Disease Control | | |
| | AGPE 70 | Pet Shop Management | 3.0 | |
| | AGPE 71 | Canine Management | 3.0 | |
| | AGPE 72 | Feline Management | 3.0 | |
| | AGPE 73 | Tropical and Coldwater | 2.0 | |
| | | Fish Management | | |
| | AGPE 74 | Reptile Management | 2.0 | |
| | AGPE 76 | Aviculture - Cage and Aviary Birc | ls 3.0 | |
| | | Total Units | 34.0 | |
| | | | | |
| | | | | |

| Major S1 This progra employme career opp cinema, co journalism consult wit wish to att | cial and Entertainment Ar OO2 Im is designed to prepare the st nt in the field of photography. A ortunities are available in photo mmunications, industrial arts, g . Students desiring a bachelor's th an advisor or catalog of the in rend regarding transferability of | udent for Variety of graphy, art, raphics, and degree should nstitution they | Physical Major SC This progra employme wishing a consult wi plan and t | am is designed to prepare stu nt in the field of Physical Edu bachelor's degree (transfer pi th a counselor or advisor to f o discuss transferability. ments for the Major | udents for ucation. Students rogram) should ile an educational | Comparison of the program receive an Associate Science degree in Nursing and are eligible to take the NCLEX- Office for approval prior to enrollment in this Applicants must have completed all prerequite to taking NURS 70. Applicants must provide Psychiatric Technician License, physical, CPR of Check, and drug test prior to the start of clar Requirements for Nursing Required courses: NURS 3 Medical-Surgical Nursing: Locommunication and clinical nursing practice at local hospitals and sealth agencies. Graduates of the program receive an Associate Science degree in Nursing and are eligible to take the NCLEX- | isite cou proof of card, Ba cs.) ption3.5 gy/Imm 3.0 | Irses prior f current Ickground |
|---|---|---|--|---|---|--|--|---------------------------------------|
| | ments for the Major | | ANAT 35 | Human Anatomy | 5.0 CSU,UC | Vexamination leading to licensure as a Registered Nurse. NURS 7 Medical-Surgical Nursing: | | CSU |
| Required C GRAP 10 | Photoshop Imagery | 3.0 | ANAT 36 | Human Physiology | 5.0 CSU,UC | pe Psychiatric Technician is provided career mobility into Nutrition/Elimination/Surgica | Aseps | is |
| PHOT 10 | Basic Digital | 3.0 CSU,UC | NF 10 | Nutrition for Personal Healt and Wellness | h 3.0 CSU | e Nursing Program to earn an Associate degree in Nursing. NURS 8 Medical-Surgical Nursing: | 5.0 | CSU |
| | and Film Photography | 5.0 650,00 | | or or | | Circulation and Oxygenation | | |
| PHOT 11 | Advanced Professional | 4.0 | NF 25 | <u>or</u> Essentials of Nutrition | 3.0 CSU,UC | Human Anatomy including a laboratory component | | CSU |
| | Photography | | | or | 5.0 650,00 | a minimum of four semester units. NURS 10 Medical-Surgical Nursing: | 4.0 | CSU |
| PHOT 12 | Photographic Alternatives | 3.0 CSU,UC | NF 25H | Essentials of Nutrition - Hor | nors 3.0 CSU,UC | 2. Human Physiology, including a laboratory NURS 11 Preceptorship in Nursing | 2 0 | CSU |
| PHOT 14 | Commercial Lighting | 3.0 | PE 3 | First Aid and CPR | 3.0 CSU,UC | component, a minimum of four semester units. | 28.5 | |
| PHOT 15 | History of Photography | 3.0 CSU,UC | | or | | B. Microbiology, including a laboratory component, a | 20.5 | |
| PHOT 16 | Fashion Photography | 3.0 | PE 5 | Advanced First Aid/ | 3.0 CSU | minimum of four semester units. ANAT 35 Human Anatomy | 5.0 | CSU,UC |
| | <u>or</u> | | | CPR/Emergency Response | | A. English TA (Writing Composition) minimum of three | 5.0 | CJ0,0C |
| PHOT 18 | Portraiture | 3.0 | PE 17 | Introduction to Physical Educa | ation 3.0 CSU,UC | semester units with units with a minimum grade of C. ANAT 36 Human Physiology | 5.0 | CSU,UC |
| | and Wedding Photography | | PE 19 | Introduction to Care/Preven | , | 5. PSYC 1A Introduction to Psychology | 510 | |
| PHOT 17 | Photocommunication | 3.0 | | of Activity/Sports - Related | | 5. CHLD 10 Child Growth and Development <u>or</u> ANAT 10A Introductory Human Anatomy | 4.0 | CSU,UC |
| PHOT 20 | Color Photography | 3.0 | PE 34 | Fitness for Living | 3.0 CSU,UC | PSYC 14 Developmental Psychology and | | |
| PHOT 21 | Exploring Color Photography | 3.0 | PLUS Colort vial | (0) | | on-course requirements: ANAT 10B Introductory Human Physiolo | jy 4.0 | CSU,UC |
| PHOT 28 | Photography Portfolio | 3.0 | DNCE | nt (8) courses from: | 0.5 - 2.0 CSU,UC | An overall grade point average of 2.5 for the Human MICR 1 Principles of Microbiology | 5.0 | CSU,UC |
| PHOT 30 | Development Commercial | 3.0 | PE-A | Dance: Activity Physical Education: | 0.5 - 2.0 CSU,UC 0.5 - 2.0 CSU,UC | Anatomy, Human Physiology, and Microbiology | | |
| 1101 20 | and Illustrative Photography | 5.0 | r L-A | Aquatics | 0.5-2.0 (50,00 | prerequisite courses with no grade less than a "C" for each course and no more than one repetition of any | | CSU,UC |
| | Total Units | 37.0 | PE-F | Physical Education: Fitness | 0.1 - 2.5 CSU,UC | 2. A cumulative grade point average (GPA) of 2.5 for all | 4.0 | CSU,UC |
| Recommen | nded Electives: | 57.0 | PE-I | Physical Education: | 0.5 - 1.0 CSU,UC | college coursework completed | | |
| AHIS 1 | Understanding the Visual Arts | | | Individual | | ENGLIAH Freshman Composition - Hono | | |
| | <u>or</u> | | PE-L | Physical Education: | 0.5 - 1.0 CSU,UC | High school graduation or GED or academic degree from | it 3.0 | CSU,UC |
| ARTB 1 | Understanding the Visual Arts | | | Adaptive | | an accordited college (university in the United States | | |
| GRAP 12 | Advanced Photo Editing with P | hotoshop | PE-S | Physical Education: | 0.5 - 1.0 CSU,UC | CHLD 10H Child Growth and Development CHLD 10H Child Growth and Development - Honors | it 3.0 | CSU,UC |
| PHOT 1 | Laboratory Studies: | | | Team Sports | | 5. Criminal background check and drug screening must PSYC 14 Developmental Psychology | 3 0 | CSU,UC |
| | Black and White Photography | | | Total Units | 28.6 - 41.5 | be passed prior to any patient contact. PSYC 1A Introduction to Psychology | | CSU,UC |
| PHOT 25 | Digital Capture Work Flow | | | | | 7. A physical examination, including specific SPCH 1A Public Speaking | | CSU,UC |
| PHOT 29 | Studio Business Practices | | | | | immunizations is required of all candidates prior to <u>or</u> | | |
| | for Commercial Artists | | | | | the beginning of nursing classes. SPCH 1AH Public Speaking - Honors | 4.0 | CSU,UC |
| | | | | | | 8. Current Level C-Provider CPR certification Total Units | |) - 31.0 |
| | | | | | | P. Nursing 70 Role Transition must be completed with a NOTE: Applicants planning to continue th | | |
| | | | | | | credit grade prior to entrance into the program. <i>and enter a baccalaureate program in nu</i> | | |
| | | | | | | IURS 70: Role Transition - Due to the clinical component of and ANAT 10B and MICR 1 instead of MIC | | AT 10A |
| | | | | | | URS 70, applicants must submit their names to Nursing | n 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

Sensory Demands:

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

Working Environment:

- n May be exposed to infectious and contagious disease, without prior notification
- n Regularly exposed to the risk of blood borne diseases
- $\tt n$ Exposed to hazardous agents, body fluids and wastes
- n Exposed to odorous chemicals and specimens
- n Subject to hazards of flammable, explosive gases
- n 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
- n Handle emergency or crisis situations
- n Subject to many interruptions
- n Requires decisions/actions related to end life issues
- n Exposed to products containing latex

English Language Skills:

Although proficiency in English is not a criterion for admission into the Nursing Program, students must be able to speak, write and read English to ensure patient safety and to complete classes successfully.

Radio Broadcasting: Behind the Scenes

Commercial and Entertainment Arts Major 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 | 3.0 | |
| | and Programming | | |
| 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 96 | Campus Radio Station Lab | 1.0 | - 2.0 |
| R-TV 97A | Radio/Entertainment | 1.0 | |
| | Industry Seminar | | |
| | <u>and</u> | | |
| R-TV 97B | Radio/Entertainment | 1.0 | |
| | Industry Internship | | |
| PLUS | | | |
| Select nine | e (9) units from: | | |
| | | | |
| R-TV 26 | Legal Issues in Entertainment La | | |
| R-TV 26 R-TV 31 | History of Radio DJs | 3.0 | |
| R-TV 26 R-TV 31 R-TV 32 | History of Radio DJs R-TV Internet Applications | 3.0 3.0 | |
| R-TV 26 R-TV 31 | History of Radio DJs R-TV Internet Applications Radio Show Producer Techniques | 3.0 3.0 | |
| R-TV 26 R-TV 31 R-TV 32 | History of Radio DJs R-TV Internet Applications Radio Show Producer Techniques and Procedures | 3.0 3.0 | |
| R-TV 26 R-TV 31 R-TV 32 | History of Radio DJs R-TV Internet Applications Radio Show Producer Techniques and Procedures | 3.0 3.0 3.0 | - 34.(|
| R-TV 26 R-TV 31 R-TV 32 | History of Radio DJs R-TV Internet Applications Radio Show Producer Techniques and Procedures | 3.0 3.0 3.0 | - 34.(|
| R-TV 26 R-TV 31 R-TV 32 | History of Radio DJs R-TV Internet Applications Radio Show Producer Techniques and Procedures | 3.0 3.0 3.0 | - 34.(|
| R-TV 26 R-TV 31 R-TV 32 | History of Radio DJs R-TV Internet Applications Radio Show Producer Techniques and Procedures | 3.0 3.0 3.0 | - 34.(|
| R-TV 26 R-TV 31 R-TV 32 | History of Radio DJs R-TV Internet Applications Radio Show Producer Techniques and Procedures | 3.0 3.0 3.0 | - 34.(|
| R-TV 26 R-TV 31 R-TV 32 | History of Radio DJs R-TV Internet Applications Radio Show Producer Techniques and Procedures | 3.0 3.0 3.0 | - 34.(|
| R-TV 26 R-TV 31 R-TV 32 | History of Radio DJs R-TV Internet Applications Radio Show Producer Techniques and Procedures | 3.0 3.0 3.0 | - 34.(|
| R-TV 26 R-TV 31 R-TV 32 | History of Radio DJs R-TV Internet Applications Radio Show Producer Techniques and Procedures | 3.0 3.0 3.0 | - 34.0 |

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, induding 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.

| | R-TV 01 | Introduction to Broadcasting | 3.0 | CSU |
|-----|-------------|--|--------|--------|
| | R-TV 02 | On-Air Personality Development or | 3.0 | CSU |
| U | R-TV 02A | On-Air Personality Development - Spanish Market | 3.0 | CSU |
| | R-TV 05 | Radio-TV Newswriting | 3.0 | |
| | R-TV 07A | Beginning Commercial Voice-Over | rs 3.0 | |
| U | R-TV 11A | Beginning Radio Production | 3.0 | CSU |
| Ŭ | R-TV 11B | Advanced Radio Production | 3.0 | CSU |
| • | R-TV 15 | Broadcast Business Practices | 3.0 | |
| | R-TV 96 | Campus Radio Station Lab | 1.0 - | - 2.0 |
| .0 | R-TV 97A | Radio/Entertainment | 1.0 | |
| .0 | | Industry Seminar | | |
| | R-TV 97B | Radio/Entertainment | 1.0 | |
| | | Industry Internship | | |
| | 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-Ove | ers3.0 | |
| | R-TV 09 | Broadcast Sales and Promotion | 3.0 | |
| | R-TV 10 | Radio Management and Programming | 3.0 | |
| 1.0 | R-TV 12 | Commercial Copywriting | 3.0 | |
| 1.0 | R-TV 17 | Internet Radio and Podcasting | 3.0 | |
| | R-TV 26 | Legal Issues in Entertainment La | w3.0 | |
| | R-TV 31 | History of Radio DJs | 3.0 | |
| | R-TV 32 | Radio-TV Internet Applications | 3.0 | |
| | R-TV 33 | Radio Show Producer Techniques and Procedures | 5 3.0 | |
| | | Total Units | 33.0 | - 34.0 |
| | | | | |

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 in 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:*

PROGRAMS LEADING TO AN ASSOCIATE DEGREE

| 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 | 5.0 | CSU |
| | of Radiologic Technology | | |
| RAD 52B | Techniques | 2.5 | CSU |
| | of Radiologic Technology | | |
| RAD 53 | Techniques | 5.0 | CSU |
| | of Radiologic Technology | | |
| RAD 54 | Techniques | 3.0 | CSU |
| | of Radiologic Technology | | |
| RAD 55A | Techniques | 7.5 | CSU |
| | of Radiologic Technology | | |
| RAD 55B | Techniques | 2.5 | CSU |
| | of Radiologic Technology | | |
| RAD 56 | Techniques | 7.0 | CSU |
| | of Radiologic Technology | | |
| RAD 57 | Techniques | 4.5 | CSU |
| | of Radiologic Technology | | |

| RAD 61A | Theory of Radiologic Technology | 4.0 | CSU | | | |
|--|---------------------------------|-----|-----|--|--|--|
| RAD 61B | Radiographic Positioning | 3.0 | CSU | | | |
| RAD 61C | Radiologic Technology Seminar | 1.5 | CSU | | | |
| RAD 62A | Theory of Radiologic Technology | 4.0 | CSU | | | |
| RAD 62B | Radiographic Positioning | 3.0 | CSU | | | |
| RAD 62C | Radiologic Technology Seminar | 1.5 | CSU | | | |
| RAD 63 | Theory of Radiologic Technology | 4.0 | CSU | | | |
| RAD 64 | Theory of Radiologic Technology | 4.0 | CSU | | | |
| RAD 91 | Nursing Procedures | 1.5 | CSU | | | |
| | in Radiologic Technology | | | | | |
| Total Units 79.0 | | | | | | |
| NOTE: ANAT 10A and MEDI 90 may be taken prior to | | | | | | |

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 Algebra (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 Radiologic 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.
- 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

Make an appointment with an educational advisor to review general 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.
- 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 | Require | ments for the Major | | |
|------|---|------------|---|--------|--------|
| | or herself from injury caused by patients exhibiting | Required c | ourses: | | |
| | aggressive behaviors. | BUSR 50 | Real Estate Principles | 3.0 | CSU |
| e) | Physically place patients in the proper positions for | BUSR 51 | Legal Aspects of Real Estate | 3.0 | |
| | the examination according to established procedures | BUSR 52 | Real Estate Practice, or | 3.0 | |
| | and standards of speed and accuracy. | BUSR 52D | Real Estate Practice | 3.0 | |
| f) | Rapidly respond to situations involving the health | | Work Experience | | |
| | and safety of patients, providing physical and | BUSR 53 | Real Estate Finance | 3.0 | |
| | emotional support to the patient during radiographic | BUSR 55 | Real Estate Economics | 3.0 | |
| | procedures, providing basic first aid and emergency | BUSR 81 | Appraisal: | 3.5 | |
| , | care in the absence of or until a physician arrives. | | Principles and Procedures | | |
| g) | Function adequately under stressful situations | CISB 15 | Microcomputer Applications | 4.0 | CSU,UC |
| | related to technical and procedural standards of patient care situations. | PLUS | | | |
| L) | | Group A | | | |
| h) | Hear well enough (average 30 decibels for both ears) to respond to directions or calls for help from | | (2), three (3) or four (4) courses | | |
| | individuals remote from the location of the student. | BUSR 57 | Income Tax Aspects | 3.0 | |
| :) | Speak English clearly enough to explain and direct | | of Real Estate Investments | | |
| i) | procedural information to patients, and to communicate | BUSR 59 | Real Estate Property Managem | | |
| | with physicians, technical staff, and faculty. Students for | BUSR 60 | Real Estate Investment Plannir | | |
| | which English is a second language may be required to | BUSR 62 | Mortgage Loan Brokering | 3.0 | |
| | complete a verbal communication assessment prior to | | and Lending | | |
| | entering the program. | BUSR 76 | Escrow Procedures I | 3.0 | |
| j) | Calculate and select proper technical exposure factors | PLUS | | | |
| | according to the individual needs of the patient's | Group B | (0) and (1) an true (2) courses for | | |
| | condition and requirements of the procedure with | BUSA 7 | (0), one (1) or two (2) courses fr | | ccu uc |
| | speed and accuracy. | BUSA / | Principles of Accounting - Financial | 5.0 | CSU,UC |
| k) | View and evaluate the recorded images of a | BUSA 11 | Fundamentals of Accounting | 3.0 | |
| | radiograph for the purpose of identifying porper patient positioning, accurate procedural sequencing, | BUSA 72 | Bookkeeping - Accounting | 5.0 | |
| | proper exposure (and/or "s" number), and other | BUSL 18 | Business Law | 3.0 | CSU,UC |
| | established technical qualities. | BUSM 20 | Principles of Business | | CSU,UC |
| Fnal | ish Language Skills: | BUSM 60 | Human Relations in Business | | CSU |
| | 5 5 | BUSM 66 | Small Business Management | 3.0 | CSU |
| | ough proficiency in English is not a criterion for ission into the Radiologic Technology Program, | BUSO 5 | Business English | 3.0 | |
| | ents must be able to speak, write and read English to | BUSO 25 | Business Communications | 3.0 | CSU |
| | re patient safety and to complete classes successfully. | BUSO 26 | Oral Communications for Busin | ess3.0 | |
| | re patient salety and to complete classes succession. | BUSS 35 | Professional Selling | 3.0 | CSU |
| Re | al Estate | BUSS 36 | Principles of Marketing | | CSU |
| | iness Administration Department | PSYC 1A | Introduction to Psychology | 3.0 | CSU,UC |
| | or S0512 | | Total Units | | - 44.5 |
| | program prepares students for employment | | | | |
| | wing graduation. Students wishing a bachelor's | Real Fo | tate Appraisal | | |
| | ee (transfer program) should consult with a | | Administration Departme | ent | |
| | and an an addition was discussed and a family likes of according | 24511633 | | | |

Major S0513

This program prepares students for employment

to discuss transferability of courses.

following graduation. Students wishing a bachelor's

degree (transfer program) should consult with an advisor

- Rapidly respond to situations inv f) and safety of patients, providing emotional support to the patient procedures, providing basic first care in the absence of or until a p
- q) Function adequately under stress related to technical and procedu patient care situations.
- Hear well enough (average 30 de h) to respond to directions or calls for individuals remote from the locat
- Speak English clearly enough to ex i) procedural information to patients with physicians, technical staff, and which English is a second language complete a verbal communication entering the program.
- Calculate and select proper techn i) according to the individual needs condition and requirements of th speed and accuracy.
- View and evaluate the recorded k) radiograph for the purpose of ide patient positioning, accurate proc proper exposure (and/or "s" numl established technical qualities.

English Language Skills:

Real Estate

Business Administration Depar Major S0512

This program prepares students for en following graduation. Students wishin degree (transfer program) should cons 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.

| | Required of | courses: | | | | | |
|---|----------------------------------|---|-----------|--------|--|--|--|
| CSU | BUSR 81 | Appraisal: Principles | 3.5 | | | | |
| | | and Procedures | | | | | |
| | BUSR 82 | Uniform Standards | 1.0 | | | | |
| | | of Professional Appraisal Pract | ice | | | | |
| | BUSR 83 | Residential Appraisal | 3.5 | | | | |
| | BUSR 84 | Residential Appraisal: Case Stu | idies2.5 | | | | |
| | PLUS | ~ · · | | | | | |
| | | en (7) courses from: | | | | | |
| | BUSA 11 | Fundamentals of Accounting | 3.0 | | | | |
| CSU,UC | 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 | 3.0 | | | | |
| | | of Real Estate Investments | | | | | |
| | BUSR 59 | Real Estate Property Managen | | | | | |
| | BUSR 76 | Escrow Procedures I | 3.0 | | | | |
| | CISB 15 | Microcomputer Applications | 4.0 | CSU,l | | | |
| | INSP 70 | Elements of Construction | 3.0 | CSU | | | |
| | | Total Units | 31.5 | - 32.5 | | | |
| | Regist | ered Veterinary Tech | nolo | av | | | |
| | Agricultural Sciences Department | | | | | | |
| CSU,UC | Major S0105 | | | | | | |
| | | m of courses in Agriculture is desi | | | | | |
| | | prepare for a career in this esser | | divers | | | |
| | | The department offers a comprel | | | | | |
| CSU,UC CSU,UC | | l sciences program and is unique ovide hands-on experience design | | | | | |
| CSU,UC | | combination of practical skills and | | | | | |
| CSU | | e. Students who intend to transfer | | | | | |
| (30 | | division requirements in the catal | | | | | |
| CSU | | ty which they plan to attend and | | | | | |
| 00 | semester a | nd year in which courses are offe | red. | | | | |
| CSU | The followi | ing programs list all courses neede | ed to sat | sfy | | | |
| CSU | major requ | irements. It is recommended that | all stude | ents | | | |
| CSU,UC | | h the department chairperson or | | | | | |
| - 44.5 | | cational plan. Students must file a | | tional | | | |
| | | he Director of the Registered Vete | | | | | |
| Technology Program during the first year of s | | | | | | | |
| | | | | , | | | |
| | These prog | program during the first year of s grams are intended to prepare s ent following graduation. Studen | tudents | | | | |

Requirements for the Major

4.0 CSU,UC

dents for 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 Required 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 Animal Sanitation 3.0 CSU AGLI 96 and Disease Control Reauired courses 2nd vear:

Medical Nursing and Animal Care 4.0 CSU 31.5 - 32.5 AGHE 60 AGHE 61 4.0 CSU Surgical Nursing 4.0 CSU AGHE 62A Clinical Pathology 4.0 CSU AGHE 62B Clinical Pathology AGHE 64 Veterinary Pharmacology 3.0 CSU AGHE 65 Veterinary Radiography 2.0 CSU ned to enable al and diverse AGHE 79 Laboratory Animal Medicine 3.0 CSU and Care AGHE 84A Applied Animal Health Procedures 1.0 to give the or AGHE 84B Applied Animal Health Procedures 1.0 AGHE 85 Seminar in Animal 1.0 of the college Health Technology Anatomy and Physiology of AGHE 86 4.0 **Domestic Animals** PLUS Select four (4) units of work experience: culty advisor to AGHE 83A Work Experience in Animal Health1.0 – 2.0 PLUS Select six (6) units from: AGLI 12 Exotic Animal Management 3.0 AGLI 14 Swine Production 3.0 CSU AGLI 16 Horse Production 4.0 CSU,UC 3.0 CSU AGLI 17 Sheep Production AGLI 18 Horse Ranch Management 4.0 CSU 2.0 CSU AGLI 19 Horse Hoof Care **Beef Production** 3.0 CSU AGLI 30

PROGRAMS LEADING

| AGPE 70 | Pet Shop Management | 3.0 |
|---------|------------------------------|-------------|
| AGPE 71 | Canine Management | 3.0 |
| AGPE 72 | Feline Management | 3.0 |
| AGPE 73 | Tropical and Coldwater | 2.0 |
| | Fish Management | |
| AGPE 74 | Reptile Management | 2.0 |
| AGPE 76 | Aviculture - Cage and Aviary | y Birds 3.0 |
| | Total Units | 58.0 |

Respiratory Therapy Respiratory Technology Department Major S1205

The Respiratory Therapy Program, which is accredited by the Committee on Accreditation for Respiratory Care (COARC), is designed to train students to function as **Respiratory Therapists.**

Respiratory Therapy is the application of technical skills involving a complete understanding of cardiopulmonary physiology and recognition of various pathological conditions that alter the patient's ability to breathe effectively.

By applying medical gases under pressure - i.e., compressed air, oxygen, and other mixtures - to the airways through the use of various kinds of equipment, the therapist, under the direction of the physician, treats the diseased or ineffective respiratory system.

Some mechanical aptitude and the ability to perform fine motor movements with hands and fingers is required in learning the operation of specialized equipment. This includes diagnostic apparatus which aids the physician in detecting cardiorespiratory diseases.

Requirements for the Major Required courses:

| RESD 50 | Theory and Principles | 2.0 | CSU |
|----------|-----------------------------------|-----|-----|
| | of Respiratory Therapy | | |
| RESD 51A | Respiratory Therapy Science | 4.0 | CSU |
| RESD 51B | Respiratory Therapy Science | 4.0 | CSU |
| RESD 52 | Pulmonary Anatomy | 3.0 | CSU |
| | and Physiology | | |
| 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 | 6.0 | CSU |
| RESD 56C | Techniques of Respiratory Therapy | 2.5 | CSU |
| RESD 56D | Techniques of Respiratory Therapy | 6.0 | CSU |
| RESD 57A | Special Procedures | 1.5 | CSU |
| | for Respiratory Care | | |
| RESD 57B | Special Procedures | 1.5 | CSU |
| | for Respiratory Care | | |
| | | | |

| RESD 58 | Neonatal Intensive Care | 3.0 | CSU |
|---------|----------------------------------|--------|-----|
| RESD 59 | Respiratory Therapeutic | 3.0 | CSU |
| | Modalities | | |
| RESD 60 | Comprehensive Pulmonary | 2.0 | CSU |
| | Assessment | | |
| RESD 61 | Current Issues in Respiratory Ca | re 3.0 | CSU |
| | Total Units | 50.0 | |

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:

- 1) 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.
- File a college application and be accepted as a 2) student at Mt. San Antonio College.
- 3) 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

- 4) 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.

Foreian 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.

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 Reauirements:

RESD 50 pre-requisites ANAT 10A/10B, CHEM 10, MATH 51 must be completed prior to entering the program.

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

- *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, 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 criterion for admission into the Respiratory Therapy Program, students must be able to speak, write and read English to ensure patient safety and to complete classes successfully.

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 in 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.

Readmission Policy

To remain in the program, students must maintain a "C" or better grade in all courses. Students who are dropped, failed, or withdrew from the program may request readmission for the following year in the semester in which they were stopped or may re-start the program. Students who re-start the program will be required to retake all Respiratory Therapy courses even if satisfactory grades were received. Re-entry may occur only one time.

PROGRAMS LEADING TO AN ASSOCIATE DEGREE

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 in 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 | 3.0 | CSU,UC |
| | Structure | | |
| SIGN 220 | Translation: American Sign | 3.0 | CSU |
| | Language/English | | |
| SIGN 223 | Principles of Interpreting | 3.0 | CSU |
| SIGN 225 | Ethical Decision Making | 2.0 | |
| | for Interpreters | | |
| SIGN 227 | Cognitive Processing | 4.0 | |
| | for Interpreters | | |

| SIGN 231 | Interpreting | 4.0 | |
|--------------|-------------------------------|------|--------|
| SIGN 232 | Advanced Interpreting | 4.0 | |
| SIGN 239 | Practicum | 1.0 | |
| PLUS | | | |
| Select three | (3) courses from: | | |
| SIGN 99 | Special Projects | 2.0 | |
| | 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 | |
| SIGN 260 | Video Interpreting | 1.5 | |
| SL 2 | Linked Service Learning | 1.0 | CSU |
| | Total Units | 40.0 | - 43.0 |

Small Business Management

Accounting and Management Department Major 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 co | urses: | | | | |
| BUSA 7 | Principles of Accounting | 5.0 | CSU,UC | | |
| | - Financial | | | | |
| BUSM 10 | Principles of Continuous | 3.0 | | | |
| | Quality Improvement | | | | |
| BUSM 20 | Principles of Business | 3.0 | CSU,UC | | |
| BUSM 60 | Human Relations in Business | 3.0 | CSU | | |
| BUSM 61 | Business Organization | 3.0 | CSU | | |
| | and Management | | | | |
| 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 | | | | | |
| Recommended 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 | | | | | |
| | ssor of Small Business Managemer | | | | |
| 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 gualifies the student for an Associate in 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 Reauired courses:

| R-TV 01 | Introduction to Broadcasting | 3.0 | CSU |
|-------------|--|-------|------|
| R-TV 14 | Media Aesthetics | 3.0 | |
| R-TV 19A | Beginning Television Production | 3.0 | CSU |
| R-TV 19B | Advanced Television Production | 3.0 | CSU |
| R-TV 22 | Editing for Film and Television | 3.0 | |
| R-TV 100 | Work Experience in Film and TV | 1.0 - | 3.0 |
| PLUS | | | |
| Select 12.0 | -12.5 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 | 3.5 | |
| | and Engineering | | |
| R-TV 23 | Reality Show Production | 3.0 | |
| | Total Units | 28.0 | 30.5 |
| Recommen | ded Electives: | | |
| ANIM 115 | Storyboarding | | |
| R-TV 26 | Current Issues in Entertainment | Law | |
| THTR 17 | Acting for the Camera | | |
| | | | |
| | | | |

Welding

Air Conditioning, Water & Welding Technologies Maior 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.

| Requirer | nents for the Major | |
|-------------|-----------------------------|-------------------|
| Required co | ourses: | |
| 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 | Construction Fabrication | 3.0 |
| | and Welding | |
| | Total Units | 21.0 |
| Recommen | ded Electives: | |
| BUSM 61 | Business Organization and N | lanagement |
| EDT 11 | Technical Engineering Drawi | ing l |
| MFG 70 | Technical Mathematics | |
| | - Manufacturing Application | IS |
| WELD 30 | Metal Sculpture | |
| WELD 60 | Print Reading and Computat | tions for Welders |
| WELD 81 | Pipe and Tube Welding | |
| | | |
| | | |
| | | |
| | | |

ASSOCIATE IN 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 in 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 in 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 in 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 (choos | Emphasis Requiren | nents | BUSC 1B | Principles of Economics - Microeconomics <u>or</u> | 3.0 | |
|---|---|---|--|---|-----------------------|--|
| Associate in Arts degree | | BUSC 1BH | Principles of Economics - Microeconomics - Honors | 3.0 | | |
| in Libe | ral Arts and Sciences | 5 | CISB 15 | Microcomputer Applications | 4.0 | |
| Emphasis | s in Business | | | <u>or</u> | | |
| Degree A | | | CISB 11 | Computer Information Systems | 3.5 | |
| | is in Business provides the student | | Plus select a minimum of three courses from the | | | |
| understanding of business and its role in society. Students | | | following which should be selected in consultation | | | |
| | 5 | / | following v | which should be selected in consu | Itation | |
| will have kr | nowledge of various business func | tions and | - | which should be selected in consu nselor or educational advisor. | ltation | |
| will have kr economic a | 5 | tions and legree students | - | | Itation 3.0 | |
| will have kr economic a will be prep | nowledge of various business func nalysis. Upon completion of this o vared for an entry level job in the | tions and legree students | with a cou | nselor or educational advisor. | | |
| will have kr economic a will be prep Core/Requi | nowledge of various business funct nalysis. Upon completion of this of nared for an entry level job in the red Courses | tions and legree students business world. | with a could BUSO 25 | nselor or educational advisor. Business Communications | 3.0 3.0 | |
| will have kr economic a will be prep | nowledge of various business func nalysis. Upon completion of this o vared for an entry level job in the | tions and legree students | with a could BUSO 25 BUSM 20 | nselor or educational advisor. Business Communications Principles of Business | 3.0 3.0 | |
| will have kr economic a will be prep Core/Requi | nowledge of various business func- nalysis. Upon completion of this of nared for an entry level job in the red Courses Principles of Economics | tions and legree students business world. | with a could BUSO 25 BUSM 20 BUSA 7 | nselor or educational advisor. Business Communications Principles of Business Principles of Accounting - Financial | 3.0 3.0 5.0 | |
| will have kr economic a will be prep Core/Requi | owledge of various business func nalysis. Upon completion of this o ared for an entry level job in the red Courses Principles of Economics - Macroeconomics | tions and legree students business world. | with a could BUSO 25 BUSM 20 BUSA 7 | nselor or educational advisor. Business Communications Principles of Business Principles of Accounting - Financial Principles of Accounting | 3.0 3.0 5.0 | |

| Elective Course: | | | | | |
|------------------|-----------------------------|-------------|--|--|--|
| SPCH 7 | Intercultural Communication | 3.0 | | | |
| | Total Units | 18.5 - 23.0 | | | |
| | for Area of Emphasis | | | | |
| | • | | | | |

Associate in Arts degree in Liberal Arts and Sciences

Emphasis in Communication

Degree A8982 An emphasis in Communication provides the student with an understanding of communication strategies, reasoning, logic, and critical analysis as it relates to human interaction within multiple cultural contexts.

Core/Required Courses (7 units) SPCH 1A Public Speaking 4.0 or SPCH 1AH Public Speaking - Honors 4.0 or SPCH 2 Fundamentals of Communication 4.0 Interpersonal Communication 3.0 SPCH 26

or Interpersonal Communication 3.0 SPCH 26H - Honors PLUS

Select 11 units from the following:

| SPCH 1A | Public Speaking | 4.0 |
|----------|--|-----|
| | (if not used in core) | |
| | <u>or</u> | |
| SPCH 1AH | Public Speaking - Honors (if not used in core) | 4.0 |
| SPCH 1B | Intermediate Public Speaking | 3.0 |
| SPCH 2 | Fundamentals of Communication (if not used in core) | 4.0 |
| SPCH 3 | Voice and Diction | 3.0 |
| SPCH 4 | Performance of Literature | 3.0 |
| SPCH 6 | Group Communication | 3.0 |
| SPCH 7 | Intercultural Communication | 4.0 |
| | <u>or</u> | |
| SPCH 7H | Intercultural Communication - Honors | 4.0 |
| SPCH 8 | Professional and Organizational Speaking <u>or</u> | 3.0 |
| SPCH 8H | Professional and Organizational Speaking - Honors | 3.0 |
| SPCH 15 | Forensics Team | 2.0 |
| SPCH 16 | Forensics - Individual Events | 2.0 |
| SPCH 17 | Forensics - Debate | 2.0 |
| | | |

| SPCH 18 | Forensics - Readers Theater | 2.0 |
|----------|---------------------------------------|-------|
| SPCH 20 | Argumentation and Debate <u>or</u> | 2.0 |
| SPCH 20H | Argumentation and Debate - Honors | 2.0 |
| SPCH 30 | Gateway to Communication Studies | 2.0 |
| SPCH 99 | Special Projects in Speech | 2.0 |
| JOUR 100 | Mass Media and Society | 2.0 |
| JOUR 101 | Beginning News Writing | 2.0 |
| JOUR 102 | Intermediate News Writing | 2.0 |
| JOUR 111 | Broadcast News Writing | 2.0 |
| PHOT 10 | Basic Digital and Film | 2.0 |
| | Photography | |
| R-TV 01 | Introduction to Broadcasting | 2.0 |
| R-TV 11A | Beginning Radio Production | 2.0 |
| R-TV 19A | Beginning Television Production | n 2.0 |
| R-TV 99 | Radio/TV Special Projects | 2.0 |
| | Total Units | 18.0 |
| | for Area of Emphasis | |

Associate in Arts degree in Liberal Arts and Sciences Emphasis in Fine Arts

Degree A8983

An emphasis in Fine Arts provides the student with an understanding of the practices and theories of traditional and contemporary two and three-dimensional studio arts and an introduction to the history of western art. In addition to the foundation courses, students select 6 units from the list of approved electives.

Core/Required Courses (24 units)

| 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 | Beginning Painting I | 3.0 |
| AHIS 4 | History of Western Art: | 3.0 |
| | Prehistoric Through Gothic | |
| | <u>or</u> | |
| AHIS 4H | History of Western Art: | 3.0 |
| | Prehistoric Through Gothic - Hon | ors |
| 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 | lonors |
| | | |

| Select two | studio electives | | MUS 14A | World Music | 3.0 | PHIL 12H | Ethics - Honors | 3.0 CSU,UC | Foreign La | nguages: | |
|---------------|--|---------------|-------------|-----------------------------------|------------|-------------|---|------------|--------------------|-------------------------------------|--------------------|
| Select six (6 | i) units from the following: | | MUS 14B | American Folk Music | 3.0 | PHIL 20A | History of Western Philosophy | 3.0 | ARAB 2 | Continuing Elementary Arabic | |
| ANIM 101A | Drawing - Gesture and Figure | 3.0 | MUS 15 | Rock Music History | 3.0 | | <u>or</u> | | CHIN 2 | Continuing Elementary Chines | e 4.0 |
| ARTB 14 | Basic Studio Arts | 3.0 | | and Appreciation | | PHIL 20AH | History of Western Philosophy | 3.0 | CHIN 3 | Intermediate Chinese | 4.0 |
| ARTC 100 | Graphic Design | 3.0 | Art History | : | | | - Honors | | FRCH 2 | Continuing Elementary French | 4.0 |
| ARTC 165 | Illustration | 3.0 | AHIS 3 | History of Women | 3.0 | PHIL 20B | History of Western Philosophy | 3.0 | FRCH 3 | Intermediate French | 4.0 |
| ARTD 15B | Drawing: Intermediate | 3.0 | | and Gender in Art | | | <u>or</u> | | GERM 2 | Continuing Elementary Germa | n 4.0 |
| ARTD 16 | Drawing: Perspective | 3.0 | | <u>or</u> | | PHIL 20BH | History of Western Philosophy | 3.0 | GERM 3 | Intermediate German | 4.0 |
| | Drawing: Life | 3.0 | AHIS 3H | History of Women | 3.0 | 00115 | - Honors | | ITAL 2 | Continuing Elementary Italian | 4.0 |
| ARTD 27 | Painting: Watercolor | 3.0 | | and Gender in Art - Honors | | POLI 5 | Political Theory I | 3.0 | ITAL 3 | Intermediate Italian | 4.0 |
| | Introduction to Printmaking | 3.0 | AHIS 4 | History of Western Art: | 3.0 | DOLLO | - Ancient to Modern | 2.0 | JAPN 2 | Continuing Elementary Japane | ese 4.0 |
| | Printmaking: Introduction to | 3.0 | ///// | Prehistoric Through Gothic | 5.0 | POLI 9 | Introduction to International Relations | 3.0 | JAPN 3 | Intermediate Japanese | 4.0 |
| | Lithography | 5.0 | | <u>or</u> | | | | | SPAN 11 | Spanish for the Spanish Speak | ing 4.0 |
| ARTD 45A | Printmaking: Introduction to | 3.0 | AHIS 4H | History of Western Art: | 3.0 | English and | Dramatic Arts Literatures: | | SPAN 12 | Continuing Spanish | 4.0 |
| AKI D 45A | | 5.0 | | Prehistoric Through Gothic - Hon | | FRCH 60 | French Culture Through Cinema | 3.0 | | for the Spanish Speaking | |
| | Screen Printing | 2.0 | AHIS 5 | History of Western Art: | 3.0 | ITAL 60 | Italian Culture Through Cinema | 3.0 | SPAN 2 | Continuing Elementary Spanis | h 4.0 |
| ARTG 20 | Art, Artists and Society | 3.0 | | | 5.0 | LIT 10 | Survey of Shakespeare | 3.0 | SPAN 3 | Intermediate Spanish | 4.0 |
| ARTG 21A | Introduction to Exhibition | 3.0 | | Renaissance Through Modern | | LIT 11A | World Literature | 3.0 | SIGN 101 | American Sign Language 1 | 4.0 |
| | Production | | | <u>or</u> | 2.0 | LIT 11B | World Literature | 3.0 | SIGN 101 | American Sign Language 2 | 4.0 |
| | Ceramics: Beginning I | 3.0 | AHIS 5H | History of Western Art: | 3.0 | LIT 15 | Introduction to Cinema | 3.0 | JIUN IUZ | Total Units | 21.0 - 25.0 |
| ARTS 33 | Ceramics: Hand Construction | 3.0 | | Renaissance Through Modern - H | | SPCH 4 | Oral Interpretation of Literature | 3.0 | | | 21.0-23.0 |
| | Sculpture: Beginning | 3.0 | AHIS 6 | History of Modern Art | 3.0 | THTR 10 | History of Theater Arts | 3.0 | | for Area of Emphasis | |
| ARTS 41A | Sculpture: Life | 3.0 | | <u>or</u> | | | d Literatures: | | | | |
| PHOT 10 | Basic Digital | 3.0 | AHIS 6H | History of Modern Art - Honors | 3.0 | PHIL 15 | Major World Religions | 2.0 | | ate in Arts degree | |
| | and Film Photography | | AHIS 9 | History of Asian Art | 3.0 | PHIL IS | , , | 3.0 | | ral Arts and Science | |
| | Total Units | 30.0 | AHIS 10 | A History of Greek and | 3.0 | | <u>or</u> | 2.0 | • | s in Information Technolo | ogy |
| | for Area of Emphasis | | | Roman Art and Architecture | | PHIL 15H | Major World Religions - Honors | 3.0 | Degree A | | |
| | | | AHIS 11 | History of African, Oceanic | 3.0 | LIT 36 | Introduction to Mythology | 3.0 | | s in Information Technology provide | |
| Associa | te in Arts degree | | | and Native American Art | | LIT 46 | The Bible as Literature: | 3.0 | | lerstanding of software developmer | |
| | al Arts and Science | s | AHIS 12 | History of Precolumbian Art | 3.0 | | Old Testament | | - | s, operating systems, networks, and | network securi |
| | in Humanities | | | <u>or</u> | | LIT 47 | The Bible as Literature: | 3.0 | | on Technology Basics | |
| Degree A | | | AHIS 12H | History of Precolumbian Art | 3.0 | | New Testament | | (3.5 - 4 un | its from the following): | |
| | s in Humanities provides the st | udent with an | | - Honors | | History: | | | CISB 11 | Computer Information System | s 3.5 |
| | ing of the interrelationship bety | | ARCH 31 | World Architecture I | 3.0 | HIST 3 | History of World Civilization | 3.0 | CISB 15 | Microcomputer Applications | 4.0 |
| | tory, music, literature and the o | | | <u>or</u> | | | <u>or</u> | | Software L | Development | |
| | phical and political thought. The term of term | | ARCH 32 | World Architecture II | 3.0 | HIST 3H | History of World Civilization | 3.0 | | lected from the following): | |
| | hens the understanding of othe | er cultures | | Philosophy and Political Science: | | | - Honors | | CISP 11 | Programming in Visual Basic | 4.0 |
| through the | study of a foreign language. | | PHIL 12 | Ethics | 3.0 | HIST 4 | History of World Civilization | 3.0 | CISP 21 | Programming in Java | 4.0 |
| Select a tot | al of 18 units choosing courses | from at least | | <u>or</u> | | | <u>or</u> | | CISP 31 | Programming in C++ | 4.0 |
| 5 of the fol | lowing 7 categories: | | PHIL 12H | Ethics - Honors | 3.0 | HIST 4H | History of World Civilization | 3.0 | CISP 41 | Programming in C# | 4.0 |
| Music: | | | PHIL 20A | History of Western Philosophy | 3.0 | | - Honors | 5.0 | CISP 41 CISW 21 | | |
| MUS 11A | Music Literature Survey | 3.0 | PHIL 20R | History of Western Philosophy | 3.0 | HIST 10 | History of Asia | 3.0 | | Secure Client Side | 4.0 CSU |
| MUS 11B | Music Literature Survey | 3.0 | POLI 5 | Political Science Theory | 3.0 | HIST 10 | History of Asia | 3.0 | | Web Programming | 4.0 |
| MUS 12 | History of Jazz | 3.0 | POLI 9 | Introduction to International | 3.0 | HIST 16 | The Wild West | 3.0 | CISW 24 | Secure Server Side | 4.0 |
| MUS 13 | Introduction to Music Appreciatio | | TULI 9 | Relations | 0.0 | 01 וכווי | | 5.0 | | Web Programming | |
| | | 11 3.0 | | | | ШСТ 10 | - A History, 1800-1890 History of Maxica | 2.0 | | Technology | |
| MUS 13H | <u>or</u> Introduction to Music | 3.0 | | and Political Sciences: | | HIST 19 | History of Mexico | 3.0 | (4 units se | lected from the following): | |
| חכז כטוייו | Appreciation - Honors | 5.0 | PHIL 12 | Ethics | 3.0 CSU,UC | HIST 35 | History of Africa | 3.0 | CISD 11 | Database Management | 4.0 |
| | Appreciation - Honors | | | <u>or</u> | | HIST 44 | History of Native Americans | 3.0 | | - Microcomputers | |

| | CISD 21 | SQL Server | 4.0 | PE 19 | Introduction to Care/ | 3.0 | PSYC 33 | Psychology for Effective Living | 3.0 | READ 100 | Analysis and Critical Reading | 3.0 |
|---|--------------------|---|-------------------|--------------|-------------------------------------|----------------|--------------|--|-----------------|-------------------|----------------------------------|--------|
| | CISD 31 | Database Management | 4.0 | | Prevention of Activity/Sports-Re | lated Injuries | SOC 1 | Sociology | 3.0 | SIGN 210 | American Sign | 3.0 |
| | Operating | Systems and Networking | | PE 34 | Fitness for Living | 3.0 | | <u>or</u> | | | Language Structure | |
| | | lected from the following): | | PE 39 | Techniques of Fitness Testing | 2.0 | SOC 1H | Sociology - Honors | 3.0 | STDY 100 | Student Achievement | 3.0 |
| | CISN 11 | Telecommunications Network | kina 4.0 | PE 44 | Theory of Coaching | 3.0 | SOC 2 | Sociology | 3.0 | | and Fundamentals of Learning | |
| | CISN 21 | Windows Operating System | 4.0 | DN-T 18 | Introduction to Dance | 3.0 | | <u>or</u> | | Language <i>I</i> | Arts and Diversity | |
| | CISN 31 | Linux Operating System | 4.0 | DN-T 20 | History and Appreciation of Dance | 3.0 | SOC 2H | Sociology - Honors | 3.0 | | 6 units selected from the follow | vina): |
| | | units selected from the follow | | Scientific a | nd Nutrition Background | | SOC 20 | Sociology of Ethnic Relations | 3.0 | SPAN 1 | Elementary Spanish | 4.0 |
| | CISS 13 | | - | (A minimu | m of 3 units selected from the fo | llowing): | | <u>or</u> | | SPAN 2 | Continuing Elementary Spanish | |
| | (133-15 | Principles of Information | 4.0 | ANAT 10A | Introductory Human Anatomy | 4.0 | SOC 20H | Sociology of Ethnic Relations | 3.0 | SPAN 3 | Intermediate Spanish | 4.0 |
| | | Systems Security | 4.0 | | <u>or</u> | | | - Honors | | SPAN 4 | Continuing Intermediate Spanis | |
| | CISS 15 CISS 21 | Operating Systems Security Network Vulnerabilities | 4.0 4.0 | ANAT 35 | Human Anatomy | 5.0 | COUN 2 | College Success Strategies | 3.0 | SPAN 5 | Advanced Spanish | 4.0 |
| | (133.2.1 | and Countermeasures | 4.0 | ANAT 10B | Introductory Human Physiology | 4.0 | COUN 5 | Career/Life Planning | 3.0 | SPAN 6 | Continuing Advanced Spanish | 4.0 |
| | | Total Units | 19.5 – 20.0 | | <u>or</u> | | | Total Units | 18.0 | SPAN 11 | Spanish for the Spanish Speakir | |
| | | for Area of Emphasis | 17.5 20.0 | ANAT 36 | Human Physiology | 5.0 | | for Area of Emphasis | | SPAN 12 | Continuing Spanish | 4.0 |
| | Recommen | ded Electives: | | CHEM 10 | Chemistry for Allied | 4.0 | Plus additi | onal units taken from any cour | ses in clusters | | for the Spanish Speaking | |
| | BUSA 7 | Principles of Accounting - Fina | ancial | | Health Majors | | 1 – 3 abov | e for a total of at least 18 units | | SPAN 25 | Spanish Literature | 3.0 |
| | BUSM 20 | Principles of Business | unciui | | <u>or</u> | | Activity Co | urses | | SPAN 53 | Conversational Spanish | 3.0 |
| | BUSM 60 | Human Relations in Business | | CHEM 40 | Introduction | 4.0 | (A minimu | m of two units selected from th | e following): | SPAN 54 | Conversational Spanish | 3.0 |
| | BUSO 25 | Business Communications | | | to General Chemistry | | Students wh | ho are getting an AA degree with a | n emphasis in | FRCH 1 | Elementary French | 4.0 |
| | BUSS 36 | Principles of Marketing | | MICR 1 | Principles of Microbiology | 5.0 | | and Wellness are required to take | | FRCH 2 | Continuing Elementary French | 4.0 |
| | CISB 31 | Microsoft Word | | | <u>or</u> | | | courses in at least two areas of pl | | FRCH 3 | Intermediate French | 4.0 |
| | CISB 51 | Microsoft PowerPoint | | MICR 22 | Microbiology | 4.0 | | E-A (Aquatics); PE-F (Fitness); PE-I | | FRCH 4 | Continuing Intermediate French | |
| | CISM 11 | Systems Analysis and Design | | PHYS 1 | Physics | 4.0 | Sports); PE- | S (Team Sports); PE-L (Adaptive); I | DNCE (Dance). | FRCH 5 | Advanced French | 4.0 |
|) | R-TV 17 | Internet Radio and Podcasting | n | | <u>or</u> | | · | | | FRCH 6 | Continuing Advanced French | 4.0 |
| | SPCH 26 | Interpersonal Communication | | PHYS 2AG | General Physics | 4.0 | | ate in Arts degree | | FRCH 53 | Continuing Conversational Frenc | h 3.0 |
| | 51 CH 20 | <u>or</u> | | PSYC 1B | Biological Psychology | 3.0 | | ral Arts and Science | S | FRCH 54 | Advanced Conversational French | h 3.0 |
| | SPCH 26H | Interpersonal Communication | n – Honors | BIOL 1 | General Biology | 4.0 | | s in Language Arts | | ITAL 1 | Elementary Italian | 4.0 |
| | | | | BIOL 5 | Contemporary Health Issues | 3.0 | Degree A | | | ITAL 2 | Continuing Elementary Italian | 4.0 |
| | Associa | ate in Arts degree | | | <u>or</u> | | | is in Language Arts provides the arding of the acquisition of lang | | ITAL 3 | Intermediate Italian | 4.0 |
| | | ral Arts and Science | | BIOL 13 | Human Reproduction, | 3.0 | | ading, writing, listening, and sp | | ITAL 4 | Continuing Intermediate Italian | ı 4.0 |
| | | s in Kinesiology and Wel | | | Development and Aging | | | nvironment. In addition to the | | ITAL 5 | Advanced Italian | 4.0 |
| | Degree A | | incos | NF 10 | Nutrition for Personal Health | 3.0 | | cquisition courses, students sele | | ITAL 6 | Continuing Advanced Italian | 4.0 |
| | | s in Kinesiology and Wellness prov | vides the student | | and Wellness | | | at will strengthen their individua | | ITAL 52 | Conversational Italian | 3.0 |
| | | lerstanding of physical education, | | | <u>or</u> | | | n Language Arts. | | ITAL 53 | Continuing Conversational Italia | an 3.0 |
| | promotion, a | and the mechanics of human bod | lily movement. In | NF 25 | Essentials of Nutrition | 3.0 | Language | Acquisition | | ITAL 54 | Advanced Conversational Italiar | n 3.0 |
| | | the foundational physical education | | | <u>or</u> | | (minimum | 9 units selected from the follow | vinq): | GERM 1 | Elementary German | 4.0 |
| | | lents select courses from a scienti | | NF 25H | Essentials of Nutrition - Honors | 3.0 | CHLD 51 | Early Literacy | 3.0 | GERM 2 | Continuing Elementary German | ı 4.0 |
| | | vioral development and diversity o | | Behavioral | Development and Diversity | | | in Child Development | | GERM 3 | Intermediate German | 4.0 |
| | | lucation, Movement, and Heal | | (A minimu | m of 3 units selected from the fo | llowing): | ENGL 1C | Critical Thinking and Writing | 4.0 | CHIN 1 | Elementary Chinese | 4.0 |
| | - | m of 6 units selected from the | | PSYC 1A | Introduction to Psychology | 3.0 | | <u>or</u> | | CHIN 2 | Continuing Elementary Chinese | 4.0 |
| | PE 3 | First Aid and CPR | 3.0 | | <u>or</u> | | ENGL 1CH | Critical Thinking and Writing | 4.0 | CHIN 3 | Intermediate Chinese | 4.0 |
| | | <u>or</u> | | PSYC 1AH | Introduction to Psychology - Honors | 5 3.0 | | - Honors | | CHIN 4 | Continuing Intermediate Chines | |
| | PE 5 | Advanced First Aid/CPR/ | 3.0 | PSYC 3 | Introduction to Research | 4.0 | | <u>or</u> | | JAPN 1 | Elementary Japanese | 4.0 |
| | DE 43 | Emergency Response | 2.0 | | Methods in Psychology | | PHIL 9 | Critical Thinking | 3.0 | JAPN 2 | Continuing Elementary Japanes | |
| | PE 13 | Sports Officiating | 3.0 | PSYC 17 | Introduction to Human Services | 3.0 | | and Logical Writing | | JAPN 3 | Intermediate Japanese | 4.0 |
| | PE 17 | Introduction to Physical Educa | ation3.0 | PSYC 26 | Psychology of Sexuality | 3.0 | ENGL 81 | Language Acquisition | 3.0 | JAPN 4 | Continuing Intermediate Japanes | se 4.0 |

94 2011-12 Mt. San Antonio College Catalog

| JAPN 5 | Advanced Japanese | 4.0 | | LIT |
|-------------|-----------------------------------|-----|-----|-------|
| LATN 1 | Elementary Latin | 4.0 | | |
| LATN 2 | Continuing Elementary Latin | 4.0 | | LIT |
| ARAB 1 | Elementary Arabic | 4.0 | | LIT (|
| ARAB 2 | Continuing Elementary Arabic | 4.0 | | |
| SIGN 101 | American Sign Language 1 | 4.0 | | LIT (|
| SIGN 102 | American Sign Language 2 | 4.0 | | LIT 4 |
| SIGN 103 | American Sign Language 3 | 4.0 | | R-T\ |
| SIGN 104 | American Sign Language 4 | 4.0 | | SPC |
| SIGN 105 | American Sign Language 5 | 4.0 | | |
| LIT 3 | Multicultural American Literature | 3.0 | | |
| LIT 11A | World Literature | 3.0 | | |
| | <u>or</u> | | | As |
| LIT 11B | World Literature | 3.0 | | in |
| LIT 20 | African American Literature | 3.0 | | Em |
| LIT 25 | Contemporary Mexican | 3.0 | | Deg |
| | American Literature | | | An e |
| CHLD 50 | Multicultural Education: | 3.0 | | an u |
| | Anti-Bias Perspective | | | add |
| JOUR 100 | Mass Media and Society | 3.0 | | may |
| JOUR 107 | Race, Culture, Sex and | | | Core |
| | Mass Media Images | | 3.0 | (mii |
| R-TV 01 | Introduction to Broadcasting | 3.0 | | mos |
| R-TV 02A | On-Air Personality | 3.0 | | MAT |
| | Development – Spanish Market | | | MAT |
| Personal Op | | | | MAT |
| | 3 units selected from the followi | - | | MAT |
| BUSO 25 | Business Communications | 3.0 | | MAT |
| CHLD 61 | Language Arts and Art Media | 3.0 | | MAT |
| | For Young Children | | | MAT |
| ENGL 1B | English - Introduction | 3.0 | | |
| | to Literary Types | | | MAT |
| | <u>or</u> | | | MAT |
| ENGL 1BH | English - Introduction | 3.0 | | |
| | to Literary Types - Honors | | | CSC |
| ENGL 8A | Creative Writing - Fiction | 3.0 | | csc |
| ENGL 8B | Creative Writing - Poetry | 3.0 | | CSC |
| ENGL 8C | Creative Writing – Novel | 3.0 | | |
| ENGL 8D | Creative Writing – Poetry | 3.0 | | CSC |
| | Collection | | | |
| ENGL 8E | Creative Writing – Memoir | 3.0 | | |
| ENGL 8F | Creative Writing – Nonfiction | 3.0 | | |
| ENGL 9 | Writing the Personal Journal | 3.0 | | Rec |
| JOUR 101 | Beginning News Writing | 3.0 | | MAT |
| | <u>or</u> | | | MAT |
| JOUR 102 | Intermediate News Writing | 3.0 | | |
| JOUR 108 | Writing for Public Relations | 3.0 | | MAT |
| | | | 1 | |

| LIT 1Early American Literature3.0MATHorMATHMATHLIT 2Modern American Literature3.0CHEMLIT 6ASurvey of English Literature3.0CHEMLIT 6BSurvey of English Literature3.0CHEMLIT 6BSurvey of English Literature3.0CHEMSPCH 4Oral Interpretation of Literature3.0PHYS 4For Area of Emphasis18.0For Area of EmphasisAssociateAssociate in Arts degreeIn Liberal Arts and SciencesDegreEmphasis in MathematicsDegree A8989An emphasis in Mathematics provides the student with an understanding of college level mathematics. In addition to the foundational calculus courses, studentsMUS 2Marth 130College Algebra4.0MUS 5MATH 130College Algebra4.0MUS 5MATH 140Calculus for Business4.0MUS 1MATH 150Trigonometry3.0MUS 1MATH 280Calculus and Analytic Geometry 4.0MUS 2MATH 285Linear Algebra5.0 <i>Perfor</i> MATH 280Calculus and Analytic Geometry 4.0MUS 3MATH 285Linear Algebra5.0 <i>MUS 3</i> MATH 280Calculus and Analytic Geometry 4.0MUS 3MATH 285Linear Algebra5.0 <i>MUS 3</i> MATH 285< | | | | |
|---|------------|--------------------------------|--------------|----------|
| LIT 2Modern American Literature3.0CHEM:LIT 6ASurvey of English Literature3.0QTCHEM:LIT 6BSurvey of English Literature3.0PHY54LIT 40Children's Literature3.0PHY54SPCH 4Oral Interpretation of Literature3.0PHY54SPCH 4Oral Interpretation of Literature3.0PHY54SPCH 4Oral Interpretation of Literature3.0PHY54Associate in Arts degreeIn Liberal Arts and SciencesEmphasisEmphasis in MathematicsDegreeA8989An emphasis in Mathematics provides the student with an understanding of college level mathematics. In addition to the foundational calculus courses, studentsMUS 2Mart 130College Algebra4.0MUS 5MATH 130College Algebra4.0MUS 5MATH 140Calculus for Business4.0MUS 5MATH 150Trigonometry3.0MUS 1MATH 180Calculus and Analytic Geometry4.0MUS 5MATH 280Calculus and Analytic Geometry4.0MUS 1MATH 280Calculus and Analytic Geometry4.0MUS 1MATH 280Linear Algebra5.0mand Differential Equations(1-3 un of Computer ScienceCSCI 140C++ Language4.0MUS 3MUS 3MATH 285Linear Algebra5.0MUS 3MATH 285Linear Algebra5.0MUS 3MATH 285Linear Algebra5.0MUS 3MATH 285Linear | LIT 1 | Early American Literature | 3.0 | MATH |
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| CSCI 140 C++ Language 4.0 MUS 30 and Object Development MUS 3 CSCI 145 Java Language 4.0 MUS 30 and Object Oriented Programming MUS 30 Total Units 18 Units MUS 30 for Area of Emphasis MUS 30 <i>For Area of Emphasis</i> MUS 30 <i>MATH</i> 100 Survey of College Mathematics 3.0 MUS 4 MATH 110 Elementary Statistics 3.0 MUS 4 MATH 110H Elementary Statistics 400 MATH 110H Elementary Statistics 400 MUS 40 MATH 110H Elementary Statistics 400 MUS 40 MUS 40 M | CSCI 110 | | 3.5 | • |
| CSCI 140 C++ Language 4.0 and Object Development MUS 3 CSCI 145 Java Language 4.0 and Object Oriented Programming MUS 3 Total Units 18 Units for Area of Emphasis MUS 3 Recommended Electives: MUS 3 MATH 100 Survey of College Mathematics 3.0 MATH 110 Elementary Statistics 3.0 MATH 110 Florentary Statistics 3.0 | | | | |
| CSCI 145 Java Language 4.0 and Object Oriented Programming MUS 3.2 Total Units 18 Units for Area of Emphasis MUS 3.2 Recommended Electives: MUS 3.2 MATH 100 Survey of College Mathematics 3.0 MATH 110 Elementary Statistics 3.0 MATH 110H Elementary Statistics 3.0 | CSCI 140 | | 4.0 | |
| Aut Language 4.0 and Object Oriented Programming MUS 3: Total Units 18 Units for Area of Emphasis MUS 3: Recommended Electives: MUS 4: MATH 100 Survey of College Mathematics 3.0 MATH 110 Elementary Statistics 3.0 MATH 110 Elementary Statistics 3.0 MATH 110 Honor 2.0 | CC CL 1 45 | | 4.0 | |
| Total Units 18 Units for Area of Emphasis MUS 30 Recommended Electives: MUS 40 MATH 100 Survey of College Mathematics 3.0 MATH 110 Elementary Statistics 3.0 MATH 110 Elementary Statistics 3.0 MATH 110 Honortary Statistics 3.0 | CSCI 145 | 5 5 | | |
| for Area of Emphasis MUS 3: Recommended Electives: MUS 4: MATH 100 Survey of College Mathematics 3.0 MATH 110 Elementary Statistics 3.0 MATH 110H Elementary Statistics 3.0 | | | - | |
| Recommended Electives: MUS 3' MATH 100 Survey of College Mathematics 3.0 MATH 110 Elementary Statistics 3.0 MATH 110H Elementary Statistics 3.0 | | | 18 Units | |
| Math 100 Survey of College Mathematics 3.0 MATH 110 Elementary Statistics 3.0 MATH 110 Elementary Statistics 3.0 MATH 110H Elementary Statistics 3.0 | _ | • | | |
| MATH 100 Survey of College Mathematics 3.0 MUS 4 MATH 110 Elementary Statistics 3.0 MUS 4 MATH 110H Elementary Statistics 4000000 AUX 4000000000000000000000000000000000000 | | | | |
| MATH 110 Elementary Statistics 3.0 MUS 4. <u>or</u> MUS 4. MUS 4. MUS 4. | | | | |
| MUS 4 | MATH 110 | | 3.0 | |
| MATH TTUH Elementary Statistics - Honors 3.0 MUS 4 | | | 2.0 | |
| | MATH 110H | Elementary Statistics – Honors | 3.0 | MUS 4 |

| | | | | 5 | |
|---------------------|--------------------------------------|------------|------------|---|-------------|
| ATH 115 | Statway II | 5.0 | MUS 48 | Men's Vocal Ensemble | 2.0 |
| ATH 120 | Finite Mathematics | 3.0 | MUS 49 | Wind Ensemble | 3.0 |
| HEM 50 | General Chemistry I | 5.0 | | Total Units | 18.0 - 20.0 |
| | <u>or</u> | | | for Area of Emphasis | |
| HEM 50H | General Chemistry I - Honors | 5.0 | Strongly F | Recommended Electives: | |
| HEM 51 | General Chemistry II | 5.0 | MUS 11B | Music Literature Survey | 3.0 |
| HYS 4A | Engineering Physics | 5.0 | MUS 16 | Individual Instruction | 3.0 |
| HYS 4B | Engineering Physics | 5.0 | 1105 10 | (every semester) | 5.0 |
| HYS 4C | Engineering Physics | 5.0 | MUS 9 | Introduction to Music Technolog | gy 3.0 |
| | ate in Arts degree | | | ate in Arts degree | |
| | ral Arts and Sciences | 5 | in Libe | eral Arts and Sciences | S |
| mphasis legree A | s in Music | | | is in Natural Sciences | |
| | s in Music provides the student wit | h an | Degree | | |
| | ng of music theory, harmony, and t | | | is in Natural Sciences provides the st | |
| | sic. In addition to the foundational | | | ling of living and non-living systems | |
| | ect courses in piano and a perform | , | | ition of the methodologies and tools ay select courses that focus on a spe | |
| | red Courses (15 units) | | | complementary courses to strength | |
| US 2 | Music Theory | 3.0 | | ey may select courses that strengthe | |
| IUS 2 IUS 3A | | 3.0 3.0 | | l understanding of the Natural Scien | |
| | Harmony Musicianshin | | | inimum of 18 units from the fol | |
| IUS 5A | Musicianship | 1.0 | | | - |
| | - Ear Training and Sight Singing | | ASTR 5 | Introduction to Astronomy | 3.0 |
| IUS 5B | Musicianship | 1.0 | | <u>or</u> | |
| | - Ear Training and Sight Singing | | ASTR 5H | Introduction to Astronomy | 3.0 |
| IUS 11A | Music Literature Survey | 3.0 | | - Honors | |
| US 16 | Individual Instruction | 3.0 | | and | |
| US 22 | Conducting | 1.0 | ASTR 5L | Astronomical Observing | 1.0 |
| iano (2 ur | nits selected from the following, |): | | Laboratory | |
| US 17A | Elementary Class Piano | 1.0 | | <u>or</u> | |
| US 17B | Intermediate Class Piano | 1.0 | ASTR 7 | Geology of the Solar System | 3.0 |
| US 18 | Advanced Class Piano | 1.0 | | and | |
| | ce Ensemble | | ASTR 5L | Astronomical Observing | 1.0 |
| | elected from the following): | | | Laboratory | |
| US 27 | Chamber Winds | 2.0 | | <u>Oľ</u> Istoriustica to Stara Calcuica | 2.0 |
| IUS 27 | Collegiate Chorale | 2.0 1.0 | ASTR 8 | Introduction to Stars, Galaxies and the Universe | 3.0 |
| IUS 30 IUS 31 | Concert Choir | | | | |
| | | 2.0 | | <u>and</u> Astronomical Observing | 1.0 |
| US 32 | Masterworks Chorale | 1.0 | ASTR 5L | Astronomical Observing | 1.0 |
| IUS 34 | Women's Vocal Ensemble | 2.0 | | Laboratory | 4.0 |
| US 36 | Concert and Community Band | 2.0 | BIOL 2 | Plant & Animal Biology | 4.0 |
| US 38 | Ensemble | 1.0 | BIOL 3 | Ecology and Field Biology | 4.0 |
| US 39 | Laboratory Band | 2.0 | BIOL 4 | Biology for Majors | 4.0 |
| US 40 | Pep Band | 1.0 | | <u>or</u> | |
| US 44 | Vocal Jazz Ensemble | 3.0 | BIOL 4H | Biology for Majors - Honors | 4.0 |
| US 45 | Chamber Singers | 3.0 | BIOL 8 | Cell and Molecular Biology | 4.0 |
| US 46 | Mt. SAC Singers | 2.0 | BIOL 20 | Marine Biology | 3.0 |
| US 47 | Jazz Band | 3.0 | | <u>and</u> | |

| | - | - | 1 | | | 1 | | | î | | |
|----------|---------------------------------|------------|-------------------|---------------------------------------|----------------|-----------|------------------------------------|-----------|------------------|--|---------------|
| BIOL 21 | Marine Biology Lab | 2.0 | | | | | <u>or</u> | | SOC 15 | Child Development | 3.0 |
| BIOL 34 | Fundamentals of Genetics | 3.0 | | ate in Arts degree | | ANTH 22 | General Cultural Anthropology | 3.0 | Bioloav as | it Relates to Behavior or Society | , |
| BTNY 3 | Plant Structures, Functions | 5.0 | in Libe | ral Arts and Sciences | 5 | GEOG 2 | Human Geography | 3.0 | | of 3 units selected from the foll | |
| 55 | and Diversity | 510 | Emphasis | s in Social & Behavioral Sc | iences | | <u>or</u> | | ANTH 1 | Biological Anthropology | 3.0 |
| METO 3 | Weather and the Atmospheric | 3.0 | Degree A | 8991 | | GEOG 2H | Human Geography - Honors | 3.0 | BIOL 6 | Humans and the Environment | 3.0 |
| IVILIO J | Environment | 5.0 | | is in Social & Behavioral Science | | GEOG 5 | World Regional Geography | 3.0 | BIOL 17 | Neurobiology and Behavior | 3.0 |
| | and | | student wit | th an understanding of statistics, | , cultural and | | <u>or</u> | | BIOL 34 | Fundamentals of Genetics | 3.0 |
| METO 3L | Weather and the Atmospheric | 1.0 | | ersity, the development of the pe | | GEOG 30 | Geography of California | 3.0 | PSYC 1B | Biological Psychology | 3.0 |
| METU SL | Environment Laboratory | 1.0 | as it relates | s to behavior or society, and the | historical and | | <u>or</u> | | | and Political Implications on Soc | |
| MICR 1 | Principles of Microbiology | 5.0 | political im | plications on society. | | GEOG 30H | Geography of California - Honors | 3.0 | | • | • |
| MICK I | | 5.0 | Foundation | n (a minimum of 6-7 units select | ted from the | JOUR 100 | Mass Media and Society | 3.0 | | m of 3 units selected from the fo | |
| MICR 22 | <u>or</u> Microbiology | 4.0 | following): | | | JOUR 107 | Race, Culture, Sex | 3.0 | GEOG 8 HIST 1 | The Urban World | 3.0 3.0 |
| CHEM 50 | | 4.0 5.0 | ANTH 1 | Biological Anthropology | 3.0 | | and Mass Media Images | | | History of the United States | 5.0 |
| | General Chemistry | 5.0 | | <u>or</u> | 5.0 | POLI 25 | Politics of the Mexican American | 3.0 | HIST 7 | <u>Oľ</u> Llistory of the United States | 3.0 |
| | <u>or</u> | 5.0 | ANTH 1H | Biological Anthropology | 3.0 | POLI 35 | African American Politics | 3.0 | | History of the United States | 5.0 |
| CHEM 50H | General Chemistry - Honors | 5.0 | | - Honors | 5.0 | SPCH 7 | Intercultural Communication | 3.0 | HIST 7H | <u>or</u> History of the United States | 3.0 |
| CHEM 51 | General Chemistry II | 5.0 | POLI 1 | Political Science | 3.0 | | <u>or</u> | | | - Honors | 5.0 |
| CHEM 60 | Quantitative Chemical Analysis | 5.0 | TOLIT | <u>or</u> | 5.0 | SPCH 7H | Intercultural Communication | 3.0 | | | |
| CHEM 80 | Organic Chemistry | 5.0 | POLI 1H | <u>Political Science – Honors</u> | 3.0 | | - Honors | | HIST 8 | <u>or</u> History of the United States | 3.0 |
| CHEM 81 | Organic Chemistry | 5.0 | PSYC 1A | Introduction to Psychology | 3.0 | HIST 36 | Women in American History | 3.0 | 0 1011 | | 5.0 |
| GEOG 1 | Elements of Physical Geography | 3.0 | 1 JIC IA | <u>Or</u> | 5.0 | | - Beyond the Stereotypes | | HIST 8H | <u>or</u> History of the United States | 3.0 |
| | <u>or</u> | | PSYC 1AH | Introduction to Psychology - Hono | rs 3.0 | BIOL 15 | Human Sexuality | 3.0 | | - Honors | 5.0 |
| GEOG 1H | Elements of Physical Geography | 3.0 | SOC 1 | Sociology | 3.0 | | <u>or</u> | | HIST 10 | History of Asia | 3.0 |
| | - Honors | | 5001 | <u>or</u> | 5.0 | BIOL 15H | Human Sexuality - Honors | 3.0 | | | 5.0 |
| | <u>and</u> | | SOC 1H | Sociology – Honors | 3.0 | PSYC 25 | The Psychology of Women | 3.0 | HIST 11 | <u>Ur</u> History of Asia | 3.0 |
| GEOG 1L | Physical Geography Laboratory | 1.0 | BUSC 1A | Principles of Economics | 3.0 | PSYC 26 | Psychology of Sexuality | 3.0 | | <u>or</u> | 5.0 |
| GEOL 1 | Physical Geology | 4.0 | DOSCIN | Macroeconomics | 5.0 | R-TV 01 | Introduction to Broadcasting | 3.0 | HIST 16 | <u>or</u> The Wild West | 3.0 |
| GEOL 2 | Historical Geology | 4.0 | | <u>or</u> | | SOC 5 | Introduction to Criminology | 3.0 | | - A History, 1800-1890 | 5.0 |
| GEOL 8 | Earth Science | 3.0 | BUSC 1AH | | 3.0 | SOC 14 | Marriage and the Family | 3.0 | HIST 30 | History of the African American | 3.0 |
| | <u>or</u> | | boseman | - Macroeconomics - Honors | 5.0 | | <u>or</u> | | | or | 510 |
| GEOL 8H | Earth Science — Honors | 3.0 | BUSC 1B | Principles of Economics | 3.0 | SOC 14H | Marriage and the Family - Honor | s 3.0 | HIST 31 | History of the African American | 3.0 |
| | <u>and</u> | | 505015 | - Microeconomics | 510 | SOC 20 | Sociology of Ethnic Relations | 3.0 | | or | |
| GEOL 8L | Earth Science Laboratory | 1.0 | | or | | | <u>or</u> | | HIST 35 | History of Africa | 3.0 |
| OCEA 10 | Introduction to Oceanography | 3.0 | BUSC 1 BH | | 3.0 | SOC 20H | Sociology of Ethnic Relations | 3.0 | HIST 40 | History of the Mexican Americar | |
| | and | | | - Microeconomics - Honors | | | - Honors | | | <u>or</u> | |
| OCEA 10H | Intro. to Oceanography - Honors | 3.0 | HIST 1 | History of the United States | 3.0 | Developme | ent of the Person | | HIST 44 | History of Native Americans | |
| | and | | | or | | (a minimu | m of 3 units selected from the fol | llowing): | POLI 9 | Introduction to International Re | lations 3.0 |
| OCEA 10L | Introduction to Oceanography | 1.0 | HIST 7 | History of the United States | 3.0 | BIOL 5 | Contemporary Health Issues | 3.0 | | or | |
| | Laboratory | | | <u>or</u> | | BIOL 13 | Human Reproduction, | 3.0 | POLI 25 | Politics of the Mexican Americar | n 3.0 |
| PHSC 7 | Physical Science | 4.0 | HIST 7H | History of the United States | 3.0 | | Development and Aging | | | or | |
| | and | | | - Honors | | CHLD 1 | Child, Family and Community | 3.0 | POLI 35 | African American Politics | 3.0 |
| PHSC 7L | Physical Science Laboratory | 1.0 | Plus one of | f the following: | | CHLD 10 | Child Growth and Development | 3.0 | PSYC 17 | Introduction to Human Services | 3.0 |
| PHYS 2AG | | 4.0 | | Elementary Statistics | 3.0 | | <u>or</u> | | | Total Units | 18.0 - 19.0 |
| PHYS 2BG | General Physics | 4.0 | | <u>or</u> | | CHLD 10H | Child Growth and Development | 3.0 | | for Area of Emphasis | |
| PHYS 4A | Engineering Physics | 5.0 | MATH 110H | Elementary Statistics – Honors | 3.0 | | - Honors | | Students w | ho decide to major in the Social a | nd Behavioral |
| PHYS 4B | Engineering Physics | 5.0 | PSYC 10 | Statistics for the Behavioral Science | | PSYC 14 | Developmental Psychology | 3.0 | | e strongly encouraged to gain a st | |
| PHYS 4C | Engineering Physics | 5.0 | | Gender Diversity | | PSYC 19 | Abnormal Psychology | 3.0 | | ackground by taking PSYC 3 Introd | |
| ENGR 40 | Statics | 3.0 | | m of 3 units selected from the fo | lowine). | SOC 2 | Sociology | 3.0 | | ethods in Psychology (4.0 units) o | |
| | | | ANTH 30 | The Native American | 3.0 | | <u>or</u> | | | Resources and Research Methods | |
| ENGR 41 | Dynamics Total Units | 3.0 | ANTH 30 ANTH 5 | Principles of Cultural Anthropolog | | SOC 2H | Sociology - Honors | 3.0 | | | |
| | | 18.0 | CILINA | r miciples of cultural Anthropolog | y 5.0 | SOC 4 | Introduction to Gerontology | 3.0 | | | |
| | for Area of Emphasis | | | | | | _, | | | | |

96 2011-12 Mt. San Antonio College Catalog

Programs Leading to an Associate degree

| Other recon | nmended electives include: | |
|-------------|---|-----|
| ANTH 3 | Archaeology | 3.0 |
| BUSM 60 | Human Relations in Business | 3.0 |
| FCS 41 | Life Management | 3.0 |
| COUN 5 | Career/Life Planning | 3.0 |
| COUN 51 | Career Planning | 1.0 |
| CHLD 1 | Child, Family and Community | 3.0 |
| CHLD 73 | Infant/Toddler Care | 3.0 |
| | and Development | |
| CHLD 85 | Infants at Risk | 3.0 |
| LIT 15 | Introduction to Cinema | 3.0 |
| LIT 20 | African American Literature | 3.0 |
| LIT 25 | Contemporary Mexican | 3.0 |
| | American Literature | |
| LIT 3 | Multicultural American Literature | 3.0 |
| PSYC 17 | Introduction to Human Services | 3.0 |
| PSYC 19 | Abnormal Psychology | 3.0 |
| PSYC 33 | Psychology for Effective Living | 3.0 |
| SPCH 26 | Interpersonal Communication | 3.0 |
| | <u>or</u> | |
| SPCH 26H | Interpersonal Communication - Honors | 3.0 |
| SL 1 | Service Learning/Seminar | 6.0 |
| | for Health Occupations | |
| | <u>or</u> | |
| SL 2 | Linked Service Learning | 1.0 |
| | <u>or</u> | |
| SL 3 | Service Learning/Seminar | 3.0 |
| | in Community Involvement | |
| | <u>or</u> | |
| SL 4 | Service Learning and Community | 1.0 |
| | | |



section nine

Transferring to California Colleges and Universities

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

Anthropology

Economics

Asian Studies

Behavioral Sciences

Child Development

Cultural Geography

Ethnic and Area Studies

Chicana/Chicano Studies

Comparative Cultures

Latin American Studies

Middle Fastern Studies

Third World Studies

Human Development

Peace and Conflict Studies

Law and Society

Political Science

Psychology

Legal Studies

History

Native American Studies

European Studies

Liberal Arts

Art Art History Classics **Comparative Cultures** Creative Studies Drama/Theater Arts English and Literature Foreign Languages and Literatures Humanities Liberal Studies Linguistics Medieval Studies **Museum Studies** Music Musicology Philosophy **Reliaious Studies** Renaissance Studies Rhetoric

Social Ecology Sociology 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 Zoology Health Sciences

UNIVERSITY TRANSFER MAJOR OPTIONS (continued)

Industrial Design

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 Aariculture 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

Interior Design Landscape Engineering & **Computer Science** 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 Management Marketing Communication Advertising Communication Studies Film Studies Journalism Mass Communication

Motion Picture – Television

Radio – Television Services

Communicative Disorders

Photography

Services

Counseling

Criminal Justice

Photo – Journalism

Public – Relations

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

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.

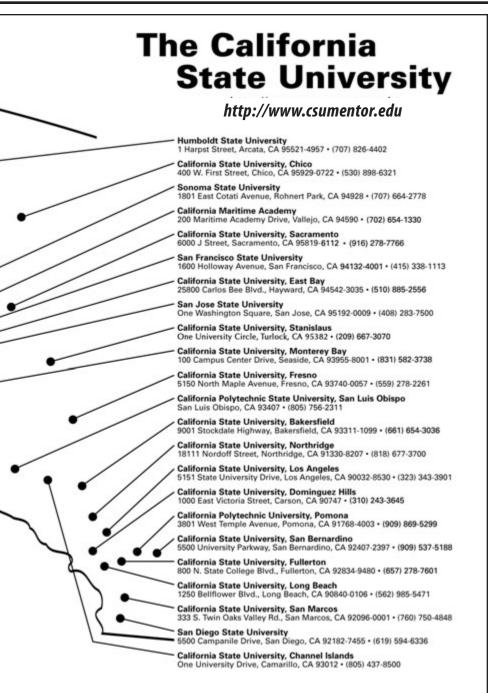
Students who completed college units before they graduated from high school or during the summer between high school graduation and CSU enrollment are considered first-time freshmen and must meet those admission requirements.

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 2011-2012 California State University (CSU) undergraduate application.



CALIFORNIA STATE UNIVERSITY GENERAL EDUCATION REQUIREMENTS 2011-12

The requirements listed below are for the 2011-2012 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) 274-4293.

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 2011 must follow 2011-2012 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 50 | General Chemistry I | +ANTH 1L | Biological Anthropology Laboratory | Area C | |
|--------------------------|---|----------------|---|-----------------|---|------------------------|--|
| The English L | .anguage and Critical Thinking (9 units) | +CHEM 50H | General Chemistry I – Honors | +BIOL 1 | General Biology | Arts, Literatu | ıre, Philosophy and |
| | rse from each group: | +CHEM 51 | General Chemistry II | +BIOL 2 | Plant and Animal Biology | Foreign Lang | juages (<i>9 units</i>) |
| A-1: Oral Communication: | | GEOG 1 | Elements of Physical Geography | +BIOL 3 | Ecology and Field Biology | Select <u>three</u> co | ourses, with at least <u>one</u> course from |
| SPCH 1A | Public Speaking | GEOG 1H | Elements of Physical Geography – Honors | +BIOL 4 | Biology for Majors | "Arts" and <u>one</u> | <u>e</u> course from "Humanities": |
| SPCH 1AH | Public Speaking – Honors | +GEOG 1L | Physical Geography Laboratory | +BIOL 4H | Biology for Majors – Honors | C-1: Arts | |
| SPCH 2 | Fundamentals of Communication | +GEOG 1LH | Physical Geography Laboratory – Honors | BIOL 6 | Humans and the Environment | AHIS 1 | Understanding the Visual Arts, <u>or</u> |
| SPCH 8 | Professional and Organizational Speaking | +GEOL 1 | Physical Geology | +BIOL 6L | Humans and the Environment Laboratory | ARTB 1 | Understanding the Visual Arts |
| SPCH 8H | Professional and Organizational Speaking | GEOL 7 | Geology of California | +BIOL 8 | Cell and Molecular Biology | AHIS 1H | Understanding the Visual Arts – Honors |
| | - Honors | GEOL 8 | Earth Science | BIOL 17 | Neurobiology and Behavior | AHIS 3 | History of Women and Gender in Art |
| | Communication: | GEOL 8H | Earth Science – Honors | BIOL 20 | Marine Biology | AHIS 3H | History of Women and Gender in Art – |
| ENGL 1A | Freshman Composition | +GEOL 8L | Earth Science Laboratory | +BIOL 21 | Marine Biology Laboratory | | Honors |
| ENGL 1AH | Freshman Composition – Honors | GEOL 9 | Environmental Geology | BIOL 34 | Fundamentals of Genetics | AHIS 4 | History of Western Art: Prehistoric |
| A-3: Critical 1 | 5 | GEOL 10 | Natural Disasters | +BIOL 34L | Fundamentals of Genetics Laboratory | 71115 | Through Gothic |
| ENGL 1C | Critical Thinking and Writing | METO 3 | Weather and the Atmospheric Environment | +MICR 1 | Principles of Microbiology | AHIS 4H | History of Western Art: Prehistoric |
| ENGL 1CH | Critical Thinking and Writing – Honors | +METO 3L | Weather and Atmospheric | +MICR 22 | Microbiology | | Through Gothic – Honors |
| PHIL 3 | Logic in Practice | | Environment Laboratory | PSYC 1B | Biological Psychology | AHIS 5 | History of Western Art: Renaissance |
| PHIL 3H | Logic in Practice — Honors | OCEA 10 | Introduction to Oceanography | B-3: Lab Scie | | AIIIS S | Through Modern |
| PHIL 8 | Critical Thinking | OCEA 10H | Introduction to Oceanography – Honors | | ent is met by taking ONE of the | AHIS 5H | History of Western Art: Renaissance |
| PHIL 9 | Critical Thinking and Logical Writing | +OCEA 10L | Introduction to Oceanography Laboratory | courses above | indicated by a " $+$ " sign. Lab must be | | |
| PSYC 5 | Psychology of Reasoning and Problem Solving | +PHSC 3 | Energy Science | | ng section to the lecture course taken. | AHIS 6 | Through Modern — Honors History of Modern Art |
| SPCH 1B | Intermediate Public Speaking | PHSC 7 | Physical Science | B-4: Mathem | atics | AHIS 6 AHIS 6H | History of Modern Art – Honors |
| SPCH 20 | Argumentation and Debate | +PHSC 7L | Physical Science Laboratory | Select at least | one course from the following list: | AHIS ON AHIS 9 | · · · · · · · · · · · · · · · · · · · |
| SPCH 20H | Argumentation and Debate — Honors | +PHYS 1 | Physics | BUSC 17 | Applied Business Statistics | | History of Asian Art |
| Area B | | +PHYS 2AG | General Physics | MATH 100 | Survey of College Mathematics | AHIS 10 | A History of Greek and Roman Art and Architecture |
| The Physical | Universe & Life (9 units minimum): | +PHYS 2BG | General Physics | MATH 110 | Elementary Statistics | AHIS 11 | History of African, Oceanic and Native |
| Select <u>one</u> cou | rse from each group. Also, one lab (+) | +PHYS 4A | Engineering Physics | MATH 110H | Elementary Statistics – Honors | | American Art |
| | e included in <u>one</u> of the science groups. | +PHYS 4B | Engineering Physics | MATH 115 | Statway 11 | AHIS 12 | History of Precolumbian Art |
| B-1: Physical | | +PHYS 4C | Engineering Physics | MATH 120 | Finite Mathematics | AHIS 12H | History of Precolumbian Art – Honors |
| | one course from the following list: | B-2: Life Scie | | MATH 130 | College Algebra | ARCH 31 | World Architecture I |
| ASTR 5 | Introduction to Astronomy | | one course from the following list: | MATH 140 | Calculus for Business | ARCH 31 ARCH 32 | World Architecture II |
| ASTR 5H | Introduction to Astronomy – Honors | | - | MATH 150 | Trigonometry | ARCH 32 ARTB 14 | Basic Studio Arts |
| +ASTR 5L | Astronomical Observing Laboratory | AGOR 1 | Horticultural Science | MATH 160 | Precalculus Mathematics | - | |
| ASTR 7 | Geology of the Solar System | +ANAT 10A | Introductory Human Anatomy | MATH 180 | Calculus and Analytic Geometry | ARTD 15A | Drawing: Beginning |
| ASTR 8 | Introduction to Stars, Galaxies and | +ANAT 10B | Introductory Human Physiology | MATH 181 | Calculus and Analytic Geometry | ARTD 20 | Design: Two Dimensional |
| | the Universe | +ANAT 35 | Human Anatomy | MATH 280 | Calculus and Analytic Geometry | ARTD 25A | Beginning Painting I |
| +CHEM 10 | Chemistry for Allied Health Majors | +ANAT 36 | Human Physiology | MATH 200 | Linear Algebra and Differential Equations | ARTG 20 | Art, Artists and Society |
| +CHEM 20 | Introductory Organic and Biochemistry | ANTH 1 | Biological Anthropology | PSYC 10 | Statistics for the Behavioral Sciences | ARTS 22 | Design: Three-Dimensional |
| +CHEM 40 | Introduction to General Chemistry | ANTH 1H | Biological Anthropology – Honors | | | ARTS 30A | Ceramics: Beginning I |
| | | | | | | ARTS 40A | Sculpture: Beginning |

TRANSFERRING TO CALIFORNIA COLLEGES AND UNIVERSITIES

Transferring to California Colleges and Universities

| | | CALIF | ORNIA STATE UNIVERSITY GENER | AL EDUCAT | ION REOUIREMENTS 2011-12 | | |
|------------------------|---|-----------------------|--|----------------|--|------------------------|--|
| DN-T 20 | History and Appreciation of Dance | * HIST 19 | History of Mexico | * POLI 7 | Political Theory II — Early Modern | BUSC 1B | Principles of Economics – Microeconomics |
| ID 14 | History of Furniture and Decorative Arts | * HIST 30 | History of the African American | | to Contemporary | BUSC 1BH | Principles of Economics – |
| MUS 7 | Fundamentals of Music | * HIST 31 | History of the African American | SIGN 101 | American Sign Language 1 | bose ibii | Microeconomics – Honors |
| MUS 11A | Music Literature Survey | * HIST 35 | History of Africa | SIGN 102 | American Sign Language 2 | JOUR 100 | Mass Media and Society |
| MUS 11B | Music Literature Survey | * HIST 36 | Women in American History | SIGN 102 | American Sign Language 3 | | - |
| MUS 112 | History of Jazz | * HIST 39 | California History | SIGN 105 | American Sign Language 4 | D-3: Ethnic S | |
| MUS 12 MUS 13 | Introduction to Music Appreciation | * HIST 40 | History of the Mexican American | SIGN 202 | American Deaf Culture | * HIST 30 | History of the African American |
| MUS 13H | Introduction to Music Appreciation – Honors | HUMA 1 | The Humanities | SPAN 1 | Elementary Spanish | * HIST 31 | History of the African American |
| MUS 13H MUS 14A | World Music | ITAL 1 | Elementary Italian | SPAN 2 | Continuing Elementary Spanish | * HIST 40 | History of the Mexican American |
| MUS 14A MUS 14B | American Folk Music | ITAL 2 | Continuing Elementary Italian | SPAN 3 | Intermediate Spanish | * HIST 44 | History of Native Americans |
| MUS 14B MUS 15 | Rock Music History and Appreciation | ITAL 2 | Intermediate Italian | SPAN 4 | Continuing Intermediate Spanish | JOUR 107 | Race, Culture, Sex, and Mass Media Images |
| | History of Photography | ITAL 3 | Continuing Intermediate Italian | SPAN 5 | Advanced Spanish | * POLI 25 | Politics of the Mexican American |
| PHOT 15 | , , , | ITAL 4 | Advanced Italian | SPAN 6 | Continuing Advanced Spanish | * POLI 35 | African American Politics |
| SPCH 4 | Performance of Literature | ITAL 5 | Continuing Advanced Italian | SPAN 11 | Spanish for the Spanish Speaking | * SOC 20 | Sociology of Ethnic Relations |
| THTR 9 | Introduction to Theatre Arts | ITAL 60 | Italian Culture Through Cinema | SPAN 12 | Continuing Spanish for the Spanish | * SOC 20H | Sociology of Ethnic Relations — Honors |
| THTR 10 | History of Theatre Arts | JAPN 1 | Elementary Japanese | | Speaking | D-4: Gender | Studies |
| THTR 11 | Principles of Acting I | JAPN 1 JAPN 2 | Continuing Elementary Japanese | SPAN 25 | Spanish Literature | * HIST 36 | Women in American History |
| C-2: Humani | ties | JAPN 2 JAPN 3 | Intermediate Japanese | JIAN 25 | Spanish Literature | * PSYC 25 | The Psychology of Women |
| ARAB 1 | Elementary Arabic | JAPN 4 | Continuing Intermediate Japanese | Area D | | | , ,, |
| ARAB 2 | Continuing Elementary Arabic | JAPN 5 | Advanced Japanese | Social, Politi | cal, and Economic Institutions and | D-5: Geograp | |
| CHIN 1 | Elementary Chinese | LATN 1 | Elementary Latin | | storical Background | GEOG 2 | Human Geography |
| CHIN 2 | Continuing Elementary Chinese | LATN 2 | Continuing Elementary Latin | | rses: Minimum 9 units with courses from | GEOG 2H | Human Geography — Honors |
| CHIN 3 | Intermediate Chinese | LIT 1 | Early American Literature | at least two a | lisciplines (D0 – D9): | GEOG 5 | World Regional Geography |
| CHIN 4 | Continuing Intermediate Chinese | LIT 2 | Modern American Literature | D-0: Sociolog | gy & Criminology | GEOG 8 | The Urban World |
| ENGL 1B | English — Intro to Literary Types | LIT 2 | Multicultural American Literature | CHLD 1 | Child, Family, School and Community | GEOG 30 | Geography of California |
| ENGL 1BH | English – Intro to Literary Types – Honors | LIT 6A | Survey of English Literature | SOC 1 | Sociology | D-6: History | |
| FRCH 1 | Elementary French | LIT 6B | Survey of English Literature | SOC 1H | Sociology – Honors | * HIST 1 | History of the United States |
| FRCH 2 | Continuing Elementary French | LIT 10 | Survey of Shakespeare | SOC 2 | Sociology | * HIST 3 | World History: Prehistoric to Early Modern |
| FRCH 3 | Intermediate French | LIT 10 | World Literature to 1650 | SOC 2H | Sociology – Honors | * HIST 3H | World History: Prehistoric to Early Modern |
| FRCH 4 | Continuing Intermediate French | LIT 11R | World Literature from 1650 | SOC 211 | Introduction to Gerontology | | – Honors |
| FRCH 5 | Advanced French | LIT 14 | Introduction to Modern Poetry | SOC 5 | Introduction to Criminology | * HIST 4 | World History: Early Modern to the |
| FRCH 6 | Continuing Advanced French | LIT 14 | Introduction to Cinema | SOC 5H | Introduction to Criminology – Honors | | Present |
| FRCH 60 | French Culture Through Cinema | LIT 20 | African American Literature | SOC 14 | Marriage and the Family | * HIST 4H | World History: Early Modern to the |
| GERM 1 | Elementary German | LIT 25 | Contemporary Mexican American Lit | SOC 14 | Marriage and the Family – Honors | | Present – Honors |
| GERM 2 | Continuing Elementary German | LIT 36 | Introduction to Mythology | * SOC 15 | Child Development | * HIST 7 | History of the United States |
| GERM 3 | Intermediate German | LIT 30 | Children's Literature | * SOC 15 | Sociology of Ethnic Relations | * HIST 7H | History of the United States – Honors |
| * HIST 1 | History of the United States | LIT 40 LIT 46 | The Bible as Literature: Old Testament | * SOC 20 | Sociology of Ethnic Relations – Honors | * HIST 8 | History of the United States |
| * HIST 3 | World History: Prehistoric to Early Modern | LIT 40 | The Bible as Literature: New Testament | | | * HIST 8H | History of the United States – Honors |
| * HIST 3H | World History: Prehistoric to Early Modern | PHIL 5 | Introduction to Philosophy | - | oology & Archeology | * HIST 10 | History of Asia |
| | - Honors | PHIL 5H | Introduction to Philosophy – Honors | ANTH 3 | Archeology | * HIST 11 | History of Asia |
| * HIST 4 | World History: Early Modern to the | PHIL 12 | Ethics | ANTH 5 | Principles of Cultural Anthropology | * HIST 19 | History of Mexico |
| | Present | PHIL 12 | Ethics – Honors | ANTH 22 | General Cultural Anthropology | * HIST 30 | History of the African American |
| * HIST 4H | World History: Early Modern to the | PHIL 15 | Major World Religions | ANTH 30 | The Native American | * HIST 31 | History of the African American |
| | Present – Honors | PHIL 15 | Major World Religions — Honors | D-2: Econom | ics | * HIST 35 | History of Africa |
| * HIST 7 | History of the United States | PHIL 13H | History of Western Philosophy | AGAG 1 | Food Production, Land Use and Politics – | * HIST 36 | Women in American History |
| * HIST 7H | History of the United States – Honors | PHIL 20A | History of Western Philosophy – Honors | | A Global Perspective | * HIST 39 | California History |
| * HIST 8 | History of the United States – Honors | PHIL 20AH | History of Western Philosophy – Honors | AGFR 20 | Conservation of Natural Resources | * HIST 40 | History of the Mexican American |
| * HIST 8H | History of the United States – Honors | PHIL 20B PHIL 20BH | , , , | BUSC 1A | Principles of Economics – Macroeconomics | * HIST 40 * HIST 44 | History of Native Americans |
| * HIST 10 | History of Asia | * POLI 5 | Political Theory I – Ancient to Modern | BUSC 1A | Principles of Economics – Macheeonomics | | TISTOLY OF NATIVE ATTENDED |
| * HIST 10 * HIST 11 | History of Asia | FULID | ronucal meory i – Ancient to Mouern | | Macroeconomics – Honors | | |
| | | | | | macroconomics nonors | | |

Transferring to California Colleges and Universities

| D-7: Interdisciplinary Social or Behavioral * CHLD 10 Child Growth and Development * CHLD 10H Child Growth and Development – Honors SPCH 7 Intercultural Communication SPCH 7H Intercultural Communication – Honors * SPCH 26 Interpersonal Communication – Honors SPCH 30 Gateway to Communication Studies D-8: Political Science, Government, and Legal Institutions * POLI 7 Political Theory II – Early Modern to Contemporary POLI 9 Introduction to International Relations POLI 25 Politics of the Mexican American POLI 35 African American Politics D-9: Psychology PSYC 1A Introduction to Psychology – Honors * PSYC 14 Developmental Psychology | Area E Lifelong Understanding & Self Development (3 units) Select at least <u>one</u> course. AD 3 Chemical Dependency: Intervention, Treatment and Recovery BIOL 5 Contemporary Health Issues BIOL 13 Human Reproduction, Development and Aging | Notes 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 completer with grades of "C" or better. |
|---|---|---|
| POLI 1 Political Science PSYC 15 Introduction to Child Psychology POLI 2 Political Science PSYC 15 Introduction to Child Psychology POLI 5 Political Science PSYC 15 Introduction to Child Psychology * POLI 5 Political Theory I – Ancient to Modern PSYC 25 The Psychology of Women * POLI 5 Political Theory I – Ancient to Modern PSYC 25 The Psychology of Women * ttention: It is recommended that you use one of the options below as part of the 9 units required in Area D. CSU AMERICAN INSTITUTIONS & U.S. HISTORY GRADUATION REQUIREMENT: Option 1: HIST 7 (or 7H) + HIST 8 (or 8H) If Option #1 is selected, D0 NOT select another D6 course as your third Area D course. Option 2: Completion of one course from U.S. History plus one course from American Institutions: United States History: American Institutions: HIST 1 HIST 8H HIST 31 HIST 40 POLI 1 POLI 25 HIST 7 HIST 8 HIST 30 HIST 36 POLI 1H POLI 35 The two courses from Option 1 or Option 2 may be used as part of the 9 units for AREA D. The two courses from Option 1 or Option 2 may be used as part of the 9 units for AREA D. | BIOL 15Human SexualityBIOL 15HHuman SexualityBIOL 15HHuman Sexuality+ CHLD 10Child Growth and Development* CHLD 10HChild Growth and Development – HonorsCOUN 5Career/Life PlanningFCS 41Life ManagementLEAD 55Exploring LeadershipNF 10Nutrition for Personal Health and WellnessNF 25Essentials of NutritionNF 25HEssentials of Nutrition – HonorsNF 28Cultural and Ethnic FoodsPE 34Fitness for Living* PSYC 14Developmental Psychology* PSYC 26Psychology of SexualityPSYC 33Psychology for Effective Living* SOC 15Child Development* SPCH 26Interpersonal Communication* SPCH 26HInterpersonal Communication – Honors | 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 40 (Writing Proficiency Examination). Courses on this list have been approved by the CS Office of the Chancellor for Fall 2011 and beyond. a course was completed prior to approval, it canno be certified for CSU General Education—Breadth requirements. Some majors at CSU do not allow double counting of major preparation courses and general educatio requirements. Students are advised to consult witt 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

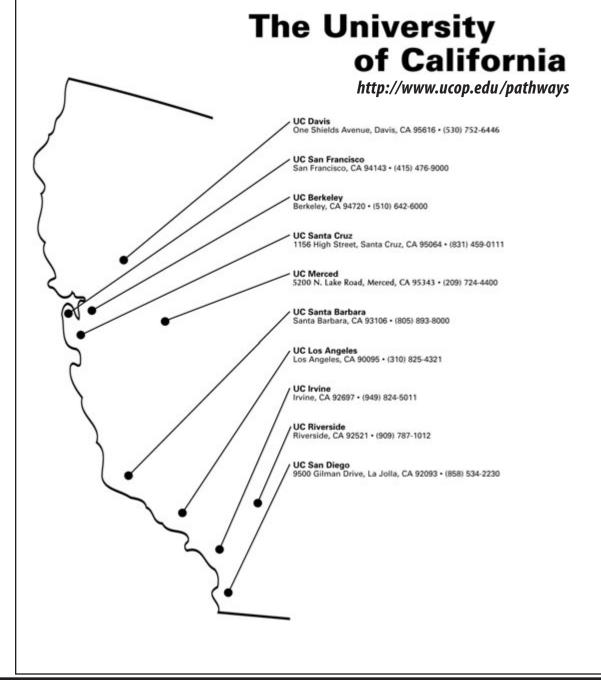
UC Minimum Admission Requirements

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.
- 3. If you were not eligible for admission to the University when you graduated from high school because you did not meet the Scholarship Requirement, you must:
 - A. Complete 60 semester 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; and
 - 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) 2011-12

The requirements listed below are for the 2011-2012 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) 274-4293.

Completion of the IGETC will permit a student to transfer from Mt. SAC to a campus in either the University of California UC or CSU will certify the coursework. Mt. SAC will certify coursework from other campuses according to the IGETC (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

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 2011 must follow 2011-2012 IGETC requirements. Courses are approved for the academic year in which they were completed. Students may obtain a copy from the Counseling Center.

| | INTERSEGMENTAL GENERAL EDUCATION | I TRANSFER CURRICULUM (IGETC) 2011-12 | |
|---|--|--|---|
| Area 4 | Area 5 | Biological Science: | |
| Social and Behavioral Sciences Select <u>three</u> courses total from a minimum of <u>two</u> different subject areas: ANTH 3 Archaeology ANTH 5 Principles of Cultural Anthropology, <u>or</u> ANTH 22 General Cultural Anthropology BUSC 1A Principles of Economics: Macroeconomics BUSC 1AH Principles of Economics: Macroeconomics – Honors BUSC 1BH Principles of Economics: Microeconomics | Physical and Biological Sciences Choose two courses, one physical and one biological science, at least one must include a laboratory. Laboratory must be a corresponding section to the lecture course taken. Laboratory courses are underlined. Physical Science: ASTR 5 Introduction to Astronomy ASTR 5H Introduction to Astronomy – Honors <u>ASTR 5L</u> Astronomical Observing Laboratory ASTR 7 Geology of the Solar System ASTR 8 Introduction to Stars, Galaxies, and | ANAT 10AIntroductory Human AnatomyANAT 10BIntroductory Human PhysiologyANAT 35Human AnatomyANAT 36Human PhysiologyANTH 1Biological AnthropologyANTH 1HBiological Anthropology – HonorsANTH 1LBiological Anthropology LaboratoryBIOL 1General BiologyBIOL 2Plant and Animal BiologyBIOL 3Ecology and Field BiologyBIOL 4Biology for Majors | BIOL 4HBiology for Majors – HonorsBIOL 6Humans and the EnvironmentBIOL 6LHumans and the Environment LaboratoryBIOL 8Cell and Molecular BiologyBIOL 20Marine BiologyBIOL 21Marine Biology LaboratoryBIOL 34Fundamentals of GeneticsMICR 1Principles of MicrobiologyMICR 22MicrobiologyPSYC 1BBiological Psychology |
| Microeconomics – Honors GEOG 2 Human Geography GEOG 2H Human Geography – Honors GEOG 8 The Urban World GEOG 30 Geography of California HIST 44 History of Native Americans POLI 1 Political Science POLI 1H Political Science – Honors *POLI 5 Political Theory I – Ancient to Modern *POLI 7 Political Theory II – Early Modern to Contemporary POLI 9 Introduction to International Relations POLI 10 Environmental Politics POLI 25 Politics of the Mexican American POLI 35 African American Politics POLI 35 African American Politics PSYC 1A Introduction to Psychology PSYC 1AH Introduction to Psychology PSYC 1AH Introduction to Psychology PSYC 1A Developmental Psychology PSYC 25 The Psychology of Women SOC 1 Sociology SOC 1H Sociology – Honors SOC 2 Sociology SOC 2H Sociology – Honors SOC 4 Introduction to Gerontology SOC 5 Introduction to Criminology SOC 6 Introduction to Criminology SOC 6 Introduction to Criminology SOC 7 Intercultural Communication SPCH 7 Intercultural Communication SPCH 26 Interpersonal Communication – Honors SPCH 26 Interpersonal Communication Studies | the Universe CHEM 10 Chemistry for Allied Health Majors CHEM 20 Introductory Organic and Biochemistry CHEM 50 General Chemistry I CHEM 50 General Chemistry I CHEM 51 General Chemistry II GEOG 1 Elements of Physical Geography GEOG 1H Elements of Physical Geography – Honors <u>GEOG 1L</u> Physical Geography Laboratory <u>GEOG 1LH</u> Physical Geology GEOL 8 Earth Science GEOL 8H Earth Science – Honors <u>GEOL 8H</u> Earth Science Laboratory GEOL 9 Environmental Geology METO 3 Weather and Atmospheric Environment * <u>METO 31</u> Weather and Atmospheric Environment Laboratory OCEA 10 Introduction to Oceanography – Honors <u>OCEA 10</u> Introduction to Oceanography – Honors <u>DCEA 10</u> Introduction to Oceanography – HONOR <u>DCEA 10</u> In | CHIN 1 Elementary Chinese SIGN 101 A FRCH 1 Elementary French SPAN 1 E GERM 1 Elementary German SPAN 11 S ITAL 1 Elementary Italian SPAN 11 S CSU GRADUATION REQUIREMENTS ONLY IN U.S. HIS Note: UCSB requires a college-level U.S. history or gove Option 1: HIST 7 (or 7H) + HIST 8 (or 8H) If Option #1 is selected, DO NOT select a Or Or Or ONT | lementary Japanese merican Sign Language 1 lementary Spanish panish for the Spanish Speaking STORY, CONSTITUTION, AND AMERICAN IDEALS: ernment course. nother D6 course as your third Area D course. ory plus one course from American Institutions. <i>ates History and American Institutions.</i> HIST 36 Women in American History HIST 40 History of the Mexican American American Institutions: POLI 1 Political Science POLI 1 Political Science – Honors POLI 25 Politics of the Mexican American POLI 35 African American Politics |

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 IGETC 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:

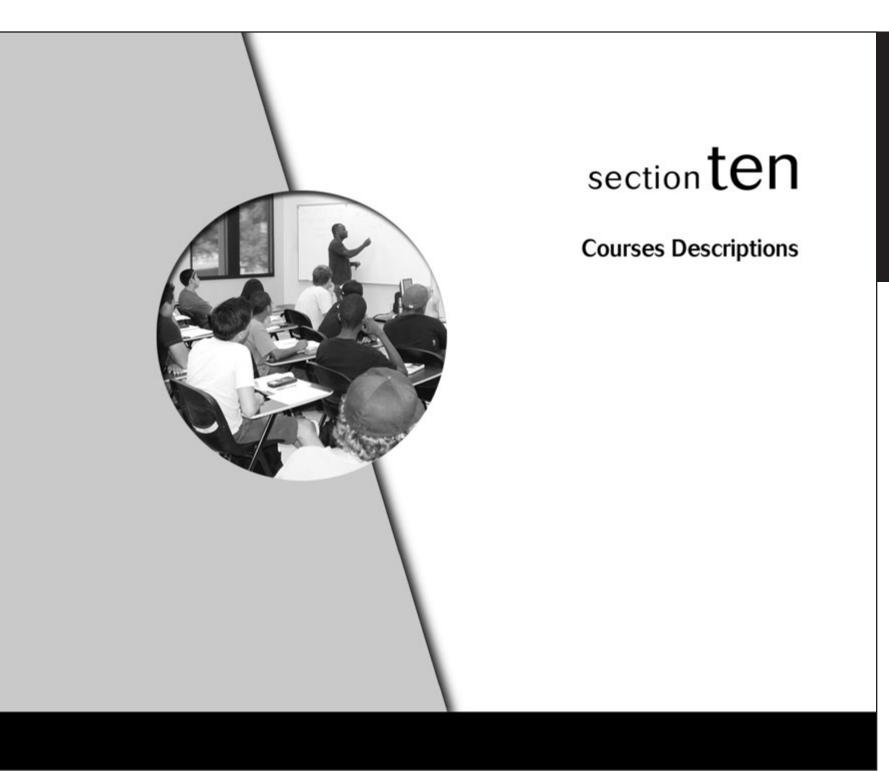
- Alliant International University
- American Academy of Dramatic Arts Los Angeles
- American Jewish University
- Antioch University Los Angeles
- Art Center College of Design
- Azusa Pacific University
- Biola University
- Brandman University
- California Baptist University
- California College of the Arts
- California Institute of Technology (Cal Tech)
- California Institute of the Arts
- California Lutheran University
- Chapman University

- California Institute of Integral Studies
- The Chicago School of Professional Psychology
- Claremont Graduate University
- Claremont McKenna College
- Claremont University Consortium
- Cogswell Polytechnical College
- Concordia University
- DeVRY Institute of Technology
- Dominican University of California
- Drexel University Center for Graduate Studies
- Fielding Graduate University
- Fresno Pacific University
- Golden Gate University
- Harvey Mudd College
- Holy Names College
- Hope International University
- Humphreys College
- 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
- Mount St. Mary's College
- National University
- Notre Dame de Namur University
- Occidental College
- Otis College of Art and Design
- Pacific Oaks College
- Pacific Union College
- Palo Alto University
- Patten College
- Pepperdine University
- Phillips Graduate Institute
- Pitzer College
- Point Loma Nazarene University
- Pomona College
- Saint Mary's College of California
- Samuel Merritt College
- San Diego Christian College
- San Francisco Conservatory of Music
- Santa Clara University
- Saybrook Graduate School and Research Center
- Scripps College
- Simpson University
- Soka University of America
- Southern California University of Health Sciences
- Stanford University
- Thomas Aquinas College
- Touro University
- 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.

RANSFERRING TO CALIFORNIA COLLEGES AND UNIVERSITIES



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 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.

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.

COURSE PREFIX LISTING

| AD Atobio Drug Conscient; 119 CSM compater Information Systems: Networking, 148 MEDI Medical Terminology 175 AREO Aremanuics 110 CSN compater Information Systems: Networking, 148 MEDI Medical Terminology 176 AREO Aremanuics 110 CSN compater Information Systems: Networking, 148 MEDI Medical Terminology 172 AREA Arginature: General Subjects 112 CCN Compater Information Systems: Networking, 144 MEG Macracuruing Technology 172 AREA Arginature: Animal Science - General 120 CCN compater and Networking Technology 176 AREA Arginature: Exotexic Notations 110 CDN compater and Networking Technology 180 AREA Arginature: Technology 117 CDN compater and Networking Technology 180 AREA Arginature: Technology 117 CDN Compater and Networking Technology 180 AREA Arginature: Technology 117 CDN Compater and Networking Technology 180 AREA Arginature | | | 1 | | 1 | | | |
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| ADUL Administration of Justice: Law Enforcement 110 CSP Computer Information Systems: Networking 14 MIT Mental Health/Psychiatri (Edmiciala 175 AEAG Agriculture: General Subjects 112 CSS Computer Information Systems: Networking 14 MIG Mental Actuating Echnology 176 AEAG Agriculture: General Subjects 112 CSS Computer Information Systems: Networking 144 MIG Mandacturing Echnology 176 AEAG Agriculture: Forestry, conservation 111 CMS Computer Information Systems: Networking Info 144 MIS Music 776 AEAG Agriculture: Eventoda Production 110 CMS Computer Information Systems: Networking Info 144 MIG Music 776 AGAD Agriculture: Production 110 CMS Computer Information Systems: Naming 148 MIC Music 776 AGAD Agriculture: Production Computer Information Systems: Naming 148 MIG Music 776 AGAD Agriculture: Production Comput | AD | Alcohol Drug Counseling | CISM | Computer Information Systems: Management | 142 | MEDI | Medical Terminology | 175 |
| AERD Aeronautics 110 GSP Computer Information Systems: Programming 141 MEID Meteorology 176 AG6A Apriculture: Animal Science - General 112 CSV Computer Information Systems: Web Applications 144 MICR Microbiology 176 AG6A Apriculture: Animal Health Technology 112 CSV Computer Information Systems: Web Applications 144 MICR Microbiology 176 AG6A Apriculture: Animal Health Technology 112 CSV Computer Information Systems: Availary 144 MICR Microbiology 176 AG6A Agriculture: Animal Health Technology 112 CORS Geneticinal Science 149 NF Nutrising | ADJU | Administration of Justice: Law Enforcement | CISN | . , , | | MENT | Mental Health/Psychiatric Technician | 175 |
| AGAG Agriculture: General Subjects 112 CBS Computer Information Systems: Security 44 MKG Mandacturing Technology 172 AGRM Agriculture: Torestry, Conservation 112 CISX Computer Information Systems: Net Applications 44 MKG Municulture: Torestry, Conservation 112 CISX Computer Information Systems: Net Applications 44 MKG Municulture: Torestry, Conservation 112 CISX Computer and Networking Tech 46 NII NIIIS Nursing 766 AGRI Agriculture: Unsetsode Production 112 CISX Computer and Networking Tech 46 NIIIS Nursing 767 Nursing 766 Agriculture: Unsetsode Production 182 Production 772 772 ARGR Agriculture: Dransentel Alexitociture 115 CISI Computer Information Systems: Advalues 774 776 776 776 776 776 776 776 776 776 776 776 776 776 776 776 7776 776 776 776 </td <td>AERO</td> <td></td> <td>CISP</td> <td>Computer Information Systems: Programming</td> <td>143</td> <td>METO</td> <td></td> <td></td> | AERO | | CISP | Computer Information Systems: Programming | 143 | METO | | |
| AGAN Agriculture: Animal Science - General. 112 CISW Computer Information Systems: Availably 144 MICR Microbiology 776 AGRE Agriculture: Animal Health Technology. 111 CISK Computer Information Systems: Availably. 146 NF Nurrition & Food 181 AGAR Agriculture: Commental Horticulture 113 COUN Commental Generation 182 AGAR Agriculture: Pet Science 146 NF Nurrition & Activation 182 AGRE Agriculture: Pet Science 145 CISK Generational Science 147 DEX Dexanography 182 AGRE Agriculture: Pet Science 147 DEX DEX Dexanography 191 AGRE Agriculture: Pet Science 147 DEX Dexanography 191 AGRE Agriculture: Pet Science 149 PE Physical Education: Individual 188 AGRE Agriculture: Restring Design Celonce 159 PE Physical Education: Antipation 184 AGRE Agriculture: Antimal Sci | AGAG | Agriculture: General Subjects | CISS | | | MFG | Manufacturing Technology | 172 |
| AGFR Agriculture: Forestry, Conservation 112 CKS Computer Information Systems: Auxiliary 141 MUSt MUSt MUSt Must 776 AGER Agriculture: Interscher Reduction 111 CVE Computer and Networking Tech 146 Nursing 181 AGLA Agriculture: Interscher Reduction 112 CVE Computer and Networking Tech 146 NUES Nursing 182 AGAR Agriculture: Evestock Production 112 CVE Computer and Science 147 CVEA Pessal Education: Assistant Preparatory 192 AIRE Air Conditioning & Refrigeration 115 DVE Darce: Theory 147 PF Physical Education: Endwork 184 AIRE Air Taffic Control 107 DCE Darce: Theory 147 PF Physical Education: Endwork 184 AIRE Air Taffic Control 107 DCE Darce: Theory 157 PF-1 Physical Education: Endwork 184 AIRE Air Taffic Control DBP Darce: Theory | AGAN | Agriculture: Animal Science – General | CISW | Computer Information Systems: Web Applications | 144 | MICR | | |
| AGHE Agriculture: Animal Health Technology 11 CME Computer and Networking Tech. 164 FF Nutrition & food 181 AGL Agriculture: Omamental Horticulture 113 COUN Counseling Sciences 146 NUES Nutrising 180 AGPE Agriculture: Per Science 115 CSC Computer Science 147 PE Physical Assistant Preparatory 192 AIRM Air Taffic Control 115 DVE Dance: 147 PE Physical Education: Theory 191 AIRM Air Taffic Control 116 DVE Dance: 157 PE+ Physical Education: Theory 194 AMIA Antomy & Physikoogy 212 Engineering Design Technology 157 PE+ Physical Education: Individual 188 ANTA Antomy & Physikoogy 212 ELC Electronics 151 PE-S Physical Education: Individual 188 ANTA Antomy & Physikongy 212 EMS Engineering Design (Faphics 190 PE-S Phys | AGFR | | CISX | Computer Information Systems: Auxiliary | 141 | MUS | Music | 176 |
| AGLI Agriculture: Livestock Production 112 CORS Correctional Sciences 146 NURS Nursing 180 AGGP Agriculture: Vert Science 115 CSL Computer Science 145 PAP PP Physician Assistant Proparatory 192 ARR Ar Conditioning & Refrigoration 115 DN-C Darce: Theory 149 PE Physical Education: Aquatics 184 ARR Air Taffic Control 116 DVF Dance 147 PE-A Physical Education: Individual 184 ARIA American Language 116 DVF Datace 155 PF-I Physical Education: Individual 188 ANAT Anatomy & Physiology 120 ELEC Electronics 151 PF-F Physical Education: Adaptive 184 ANAT Anation 22 ELC Electronics 151 PF-S Physical Education: Adaptive 185 ANAT Antribuctural Technology 121 ELC Electronics Systems Technology 135 PHC | AGHE | | CNET | | | NF | Nutrition & Food | 181 |
| AGOR Agriculture: Ornamental Horticulture 113 COUN Counseling 147 OCCA Occanography 182 AGPE Agriculture: Pert Science 115 CSI Omputer Science 149 PE Physicial Asistant Preparatory 192 AIR Air Gonditioning & Refrigeration 115 DN-T Dance: Theory 149 PE Physicial Education: Aquatics 184 AIR Air Arriffic Contol 116 DS*D Dance: Theory 151 PE-I Physicial Education: Individual 188 AMIA Anatomy Physicial Physicial Dividuation: Adaptive 184 ANT Antory Physicial Education: Individual 188 ANT Antory Physicial Education: Individual 184 ANT Antory Physicial Education: Ican Sports 190 ARGE Architectural Technology 151 PE-S Physicial Education: Ican Sports 190 ANT Antrophysicial Physicial Education: Ican Sports 190 182 PHIL Philosophy 182 ANT Artre deligin/Graphics 124 | AGLI | | CORS | | | NURS | Nursing | 180 |
| AGPE Agriculture: Pet Science 145 PAP Physical Austaint Preparatory 192 ARR Air Grinficioning & Bertigreation 115 DN-L Dance: 147 PE- Physical Education: Aquatics 184 AIR Air Taffic Control 116 DSP Dance 147 PE- Physical Education: Aquatics 184 AIRT Air Taffic Control 116 DSP Diabled Students 150 PE-F Physical Education: Aquatics 184 AIRT Antorony & Physical Education: Aquatics 184 DE Education: Aquatics 184 AINT Antorony & Physical Education: Adaptive 184 DE Education: Adaptive 184 AINT Antrohectural Technology 121 ELC Elconicis 151 PE-L Physical Education: Adaptive 184 AINT Antrohectural Technology 121 ELC Elconicis 151 PE-L Physical Education: Adaptive 184 AINT Antrohectural Technology 121 ELC Elconicis <td< td=""><td>AGOR</td><td>Agriculture: Ornamental Horticulture</td><td>COUN</td><td>Counseling</td><td>147</td><td>OCEA</td><td>Oceanography</td><td> 182</td></td<> | AGOR | Agriculture: Ornamental Horticulture | COUN | Counseling | 147 | OCEA | Oceanography | 182 |
| AIRCAIRC onditioning & Refrigeration115DN-TDance: Theory149PEPhysical Education: Reory191AIRMAircaff Maintenance Technology117DNCEDance:117PLFPhysical Education: Aquatics184AIRTAir Taffic Control116DSPSDisabled Students150PLFPhysical Education: Aquatics184AIRTAir Taffic Control116DSPSDisabled Students151PLFPhysical Education: Adaptive184AIRTAntropology212ELECElectronics151PLF-Physical Education: Tempory184ANTHAnthropology212ELECElectronics151PLF-Physical Education: Tempory183ARCHArchitectural Technology212EMSEmergency Medical Technician154PHILPhisopophy182ARCHArchitectural Technology212EMSEmergency Medical Technician154PHILPhisopophy183ANIMArt duritistion212ENGREngineering154PHILPhisopophy183ANIMArt duritistion212ENGREngineering154PHILPhisopal Science192ARTEArt: Secial Studio Arts225ESTElectronics Systems Technology159PHYSPhysical Science192ARTEArt: Secial Studio Arts226FASHRashion Merchandising & Design156PHITPhysical Science192ARTE <td>AGPE</td> <td></td> <td>CSCI</td> <td>Computer Science</td> <td>145</td> <td>PAP</td> <td>Physician Assistant Preparatory</td> <td> 192</td> | AGPE | | CSCI | Computer Science | 145 | PAP | Physician Assistant Preparatory | 192 |
| ART Air Taffic Control 116 DSP Disabled Students 150 PE-F Physical Education: Fitness 187 AMLA American Language 119 EUCC Education 151 PE-L Physical Education: Adaptive 184 ANTA Anatony & Physiology 121 ELCC Electronics 151 PE-S Physical Education: Adaptive 184 ANTA Anthony & Physiology 121 ELCC Electronics 151 PE-S Physical Education: Athletics 185 ARAB Arabic 121 ELCC Electronics 153 PE-S Physical Education: Athletics 185 ARIM Architectural Technology 124 EMS Emergency Medical Echnician 154 PHIL Philosophy 182 ANIM Art: Advertising Design/Graphics 124 ENGE Englise: Composition 155 PHOT Photography 182 ARTB Art: Basic Studio Arts 125 EST Electronics Systems Technology 153 PHSC Physical Education: Theres 192 ART Art: Special Studio Arts 125 </td <td>AIRC</td> <td></td> <td>DN-T</td> <td>Dance: Theory</td> <td>149</td> <td>PE</td> <td>Physical Education: Theory</td> <td> 191</td> | AIRC | | DN-T | Dance: Theory | 149 | PE | Physical Education: Theory | 191 |
| ART Air Taffic Control 116 DSP Disabled Students 150 PE-F Physical Education: Fitness 187 AMLA American Language 119 EUCC Education 151 PE-L Physical Education: Adaptive 184 ANTA Anatony & Physiology 121 ELCC Electronics 151 PE-S Physical Education: Adaptive 184 ANTA Anthony & Physiology 121 ELCC Electronics 151 PE-S Physical Education: Athletics 185 ARAB Arabic 121 ELCC Electronics 153 PE-S Physical Education: Athletics 185 ARIM Architectural Technology 124 EMS Emergency Medical Echnician 154 PHIL Philosophy 182 ANIM Art: Advertising Design/Graphics 124 ENGE Englise: Composition 155 PHOT Photography 182 ARTB Art: Basic Studio Arts 125 EST Electronics Systems Technology 153 PHSC Physical Education: Theres 192 ART Art: Special Studio Arts 125 </td <td>AIRM</td> <td>Aircraft Maintenance Technology</td> <td>DNCE</td> <td>Dance</td> <td>147</td> <td>PE-A</td> <td>Physical Education: Aquatics</td> <td> 184</td> | AIRM | Aircraft Maintenance Technology | DNCE | Dance | 147 | PE-A | Physical Education: Aquatics | 184 |
| ANATAnatomy & Physiology.120EDTEngineering Design Technology.155FE-LPhysical Education: Adaptive184ANTHAnthropology.121EDTEngineering Design Technology.151PE-SPhysical Education: Team Sports190ARABArabic121EMSEmergency Medical Service.153PE-XPhysical Education: Athletics183ARIMArt: Advertising Design/Graphics124EMSEmergency Medical Technician154PHITPhitography183ANIMArt: Advertising Design/Graphics124ENGEEngineering154PHITPhysical Science192ARTBArt: Basic Studio Arts125ESTElectronics Systems Technology133PHISCPhysical Science192ARTGArt: Sacis Sudio Arts125FCSFanily & Consumer Sciences158PHISPhysical Science192ARTDArt: Woo-Dimensional Studio Arts127FACHFrench-161PSYCPsychology194ARTArt History128GEOGGeography161R-TVRatio Relevision195ARTBArt History128GEOGGeography161R-TVRatio Relevision195ARTBArt History128GEOGGeography161R-TVRatio Relevision195BINBotary139GEOGGeology163PHICPhotogolgy194ARTArt History128GEOG </td <td>AIRT</td> <td></td> <td>DSPS</td> <td>Disabled Students</td> <td>150</td> <td>PE-F</td> <td>Physical Education: Fitness</td> <td> 187</td> | AIRT | | DSPS | Disabled Students | 150 | PE-F | Physical Education: Fitness | 187 |
| ANTHAnthropology121ELECElectronic151PE-SPhysical Education: Team Sports190ARABArabic121EMSEmergency Medical Service153PE-XPhysical Education: Athletics185ARCHArchitectural Technology121EMSEmergency Medical Service153PHOTPhotography182ANIMArt: Advertising Design/Graphics124ENGEnglish: Composition155PHOTPhotography183ANIMArt: Animation122ENGEnglish: Composition154PHYSPhysical Therapy192ARTBArt: Basic Studio Arts125ESTElectronics Systems Technology154PHYSPhysical Seconce192ARTGArt: Social Studio Arts125FKSHFashion Mechandising & Design158PHYSPhysical Seconce192ARTGArt: Social Studio Arts126FIREFire Technology160POLIPolitical Science193ARTDArt: Twoe-Dimensional Studio Arts126FIREFire Technology160POLIPolitical Science193ARTDArt: Twoe-Dimensional Studio Arts129GEOGGeography161PSYCPsychology194ARTArt: Social Studio Arts129GEOGGeography161R-TVRadio & Television195ARTArt: Social Studio Arts129GEOGGeography163RADRadio & Television195ART | AMLA | American Language 119 | EDUC | Education | 151 | PE-I | Physical Education: Individual | 188 |
| ARAB Arabic 121 EMS Emergency Medical Service 153 PE-X Physical Education: Athletics 185 ARCH Architectural Technology 121 EMT Emergency Medical Technician 154 PHIL Philosophy 182 ANIM Art: Advertising Design/Graphics 122 ENGE English: Composition 155 PHOT Photography 183 ANIM Art: Advertising Design/Graphics 122 ENGE English: Composition 154 PHTH Physical Science 192 ARTB Art: Basic Studio Arts 125 EST Electronics Systems Technology 153 PHSC Physical Science 192 ARTS Art: Special Studio Arts 125 FCS Fanily & Consumer Sciences 158 PHQ Physical Science 192 ARTD Art: Three-Dimensional Studio Arts 126 FRK French 161 PSY Psychology 194 Art Istory 128 GEOG Geology 163 RAD Radio & Television 192 ARID Art Instory 168 RAD Radio & Sindol | ANAT | Anatomy & Physiology 120 | EDT | Engineering Design Technology | 155 | PE-L | Physical Education: Adaptive | 184 |
| ARCHArchitectural Technology121EMTEmergency Medical Technician154PHILPhilosophy182ANIMArt: Advertising Design/Graphics124EMGEnglish: Composition155PHOTPhotography183ANIMArt: Animation122ENGREnglish: Composition155PHOTPhotography183ARTBArt: Gallery & Professional Practices125ESTElectronics Systems Technology153PHSCPhysics192ARTGArt: Gallery & Professional Studio Arts125FSSFashion Mechandising & Design158PLGBusiness: Paralegal134ARTDArt: Twe-Dimensional Studio Arts126FIREFire Fench161PSYCPsychology193ARTDArt: Two-Dimensional Studio Arts127FRCHFrench161PSYCPsychology194ARTDAstronomy129GEOLGeography161RSYCPachogy193BOLBiology130GERMGerman163RADRadio & Television195BUSABusiness: Roommications131HRMHospitality & Restaurant Management166SICNSign Language & Interpreting200BUSCBusiness: Subsect Sommunications132HTHistort-hology167SPCService Learning200BUSCBusiness: Management133IDInterior Design167SPLService Learning200BUSCBusiness: Sal | ANTH | Anthropology 121 | ELEC | | | PE-S | Physical Education: Team Sports | 190 |
| ANIMArt: Advertising Design/Graphics124ENGLEnglist: Composition155PHOTPhotography183ANIMArt: Animation122ENGREngineering154PHTHPhysical Therapy192ARTGArt: Gallery & Professional Practices125FTSFTSElectronics Systems Technology153PHYSPhysical Science192ARTGArt: Gallery & Professional Practices125FTSFamily & Consumer Sciences158PHYSPhysical Science192ARTSArt: Three-Dimensional Studio Arts126FIREFire Fire Technology160POLIPolitical Science193ARTDArt: Two-Dimensional Studio Arts127FRCHFrench161PSYCPsychology194AHSArt: Three-Dimensional Studio Arts126GEOGGeography161R-TVRadio & Television195ARTDArt: Storomy128GEOGGeography161R-TVRadio & Television195BIOLBiology130GERMGerman163RADRadio (a Television195BUSABusiness: Accounting131HRMHospitality & Restaurant Management166SiCSicin Sign Language & Interpreting200BUSABusiness: Law131HRMHospitality & Restaurant Management166SiCSicin Sign Language & Interpreting200BUSABusiness: Law131HRMHospitality & Restaurant Management166Si | ARAB | | EMS | Emergency Medical Service | 153 | PE-X | Physical Education: Athletics | 185 |
| ANIMArt: Animation122ENGREngineering154PHTHPhysical Therapy192ARTBArt: Basic Studio Arts125ESTElectronics Systems Technology153PHSCPhysical Science192ARTGArt: Gallery & Professional Practices125FSFashion Merchandising & Design158PHSPhysics192ARTZArt: Special Studio Arts126FIREFire Technology160POLIPolitical Science193ARTDArt: Two-Dimensional Studio Arts126FIREFire Technology160POLIPolitical Science193ARTDArt: Two-Dimensional Studio Arts126Geography161R-TVRadio & Television195ASTRAstronomy129GEOLGeology163RADRadio & Television195BINBiology130GERMGerman163RADReading198BUSABusiness: Accounting131HRMHospitality & Restaurant Management166SIGNSign Language & Interpreting200BUSCBusiness: Law133IInterior Design167SPANSpanish202BUSABusiness: Law133IDInterior Design167SPANSpanish202BUSABusiness: Real Estate135IAPNJapanese170SURSurveying205CHMChemical Technology137JURJapanese170SURSurveying <td>ARCH</td> <td>Architectural Technology 121</td> <td>EMT</td> <td>Emergency Medical Technician</td> <td>154</td> <td>PHIL</td> <td></td> <td></td> | ARCH | Architectural Technology 121 | EMT | Emergency Medical Technician | 154 | PHIL | | |
| ARTBArt: Basic Studio Arts125ESTElectronics Systems Technology153PHSCPhysical Science192ARTGArt: Gallery & Professional Practices125FCSFamily & Consumer Sciences158PHYSPhysical Science192ARTZArt: Special Studio Arts125FASFFASIon Merchandising & Design158PHUSPhysics: Paralegal134ARTSArt: Three-Dimensional Studio Arts126FIREFire Technology160POLIPolitical Science193ARTDArt: Two-Dimensional Studio Arts127FRCHFrench161PSVCPsychology194AHISArt: History128GEOGGeography161R-TVRadio & Television195ASTRAstronomy129GEOLGeology163RADRadiologic Technology197BIOLBiology130GERMGerman163READReading198BTNYBotany131HRMHostoriality & Restaurant Management166SGNSign Language & Interpreting200BUSCBusiness: Accounting131HRMHostifality & Restaurant Management165SLService Learning202BUSCBusiness: Law133INSPInspection & Estimating, Building167SPASpanish202BUSABusiness: Management133INSPInspection & Estimating, Building167SPASpanish202BUSMBusiness: Sal | ANIM | Art: Advertising Design/Graphics | | English: Composition | 155 | PHOT | Photography | 183 |
| ARTG Art: Gallery & Professional Practices 125 FCS Family & Consumer Sciences 158 PHYS Physics 192 ARTZ Art: Special Studio Arts 125 FASH Fashion Merchandising & Design 158 PHYS Physics 192 ARTS Art: Three-Dimensional Studio Arts 126 FIRE Fire Technology 160 POLL PolL PolLical Science 193 ARTS Art: Two-Dimensional Studio Arts 127 FRCH French 161 PSVC Psychology 194 AHIS Art History 128 GEOG Geography 161 R-TV Radio & Television 195 ASTR Astronomy 129 GEOL Geology 163 RAD Radiologic Technology 197 BIOL Biology 130 GERM GERM German 163 READ Reading 198 BUS Business: Accounting 131 HIST History 164 SIGN Sign Language & Interpreting 200 BUSC Business: Business: Conomics 132 HUMA Humanities <t< td=""><td>ANIM</td><td>Art: Animation</td><td></td><td>5 5</td><td></td><td>PHTH</td><td>Physical Therapy</td><td>192</td></t<> | ANIM | Art: Animation | | 5 5 | | PHTH | Physical Therapy | 192 |
| ARTZ Art: Special Studio Arts 125 FASH Fashion Merchandising & Design 158 PLGL Business: Paralegal 134 ARTS Art: Three-Dimensional Studio Arts 126 FIRE Fire Technology 160 POLI Political Science 193 ARTD Art: Two-Dimensional Studio Arts 127 FRCH French 161 PSYC Psychology 194 ARTS Art: Two-Dimensional Studio Arts 127 FRCH French 161 PSYC Psychology 194 ARTS Art: Two-Dimensional Studio Arts 127 FRCH French 161 PSYC Psychology 194 ARTS Art: Three-Dimensional Studio Arts 128 GEOG Geography 161 RTV Radio & Technology 197 BIOL Biology 660 Geology 163 RAD Radio Radiologic Technology 197 BUSA Business: Rounting 131 HKM HSpitality & Restaurant Management 166 SIGN Sign Language & Interpreting 200 BUSA Business: Law 131 ID Interior Design | ARTB | | | Electronics Systems Technology | 153 | | , | |
| ARTSArt: Three-Dimensional Studio Arts126FIREFire Technology160POLIPolitical Science193ARTDArt: Two-Dimensional Studio Arts127FRCHFrench161PSVCPsychology194AHISArt History128GEOGGeography161R-TVRadio & Television195ASTRAstronomy129GEOLGeology163RADRadio & Television195BIOLBiology130GERMGerman163READReading198BTWYBotany131HISTHistory164RESDRespiratory Therapy199BUSABusiness: Accounting131HRMHospitality & Restaurant Management166SIGSign Language & Interpreting200BUSCBusiness: Economics132HTHistorethnology165SLService Learning200BUSCBusiness: Law133IDInterior Design167SPANSpanish202BUSBBusiness: Reale Estate133INSPInspection & Estimating, Building167SPANSpanish202BUSSBusiness: Sales, Merchandising & Marketing136JAPNJapanese170SURSurveying205BUSSBusiness: Sales, Merchandising & Marketing136JAPNJapanese170SURSurveying205BUSSBusiness: Sales, Merchandising & Marketing136JAPNJapanese170SUR </td <td>ARTG</td> <td>Art: Gallery & Professional Practices</td> <td></td> <td>· ·</td> <td></td> <td></td> <td>•</td> <td></td> | ARTG | Art: Gallery & Professional Practices | | · · | | | • | |
| ARTD Art: Two-Dimensional Studio Arts 127 FRCH French 161 PSYC Psychology 194 AHIS Art History 128 GEOG Geography 161 R-TV Radio & Television 195 ASTR Astronomy 129 GEL0 Geology 163 RAD Radio & Television 197 BIOL Biology 130 GERM German 163 RAD Radio & Television 197 BUS Business: Accounting 131 HIST History 164 RESD Respiratory Therapy 199 BUSA Business: Accounting 131 HRM Hospitality & Restaurant Management 166 SIGN Sign Language & Interpreting 200 BUSC Business: Conomics 132 HT Histotechnology 165 SL Service Learning 200 BUSL Business: Conomics 132 ID Interior Design 167 SPAN Spanish 202 BUSL Business: Real Estate 135 ITAL Italian 167 SPCH Speech 203< | | | | Fashion Merchandising & Design | 158 | | | |
| AHISArt History128GEOGGeography161R-TVRadio & Television195ASTRAstronomy129GEOLGeology163RADRadiologic Technology197BIOLBiology130GERMGerman163RADReading198BTNYBotany131HISTHistory164RESDRespiratory Therapy199BUSABusiness: Accounting131HRMHospitality & Restaurant Management166SIGNSign Language & Interpreting200BUSCBusiness: Business Communications132HTHistoct-hology165SLService Learning200BUSCBusiness: Law133IDInterior Design167SOCSociology201BUSLBusiness: Real Estate133IDInterior Design167SPCHSpeech203BUSSBusiness: Sale skiness: Seal Estate135ITALItalian167SPCHSpeech203BUSSBusiness: Sales, Merchandising & Marketing136JAPNJapanese170SURVSurveying205CHMChemical Technology137JOURJournalism170TECHTechnology & Related Courses205CHMChemical Technology137JOURJournalism170TECHTechnology & Related Courses205CHMChemical Technology137LATNLatin171THTRTheater Arts206< | | | | 5, | | | | |
| ASTRAstronomy129GEOLGeology163RADRadiologic Technology197BIOLBiology130GERMGerman163READReading198BTNYBotany131HISTHistory164RESDRespiratory Therapy199BUSABusiness: Accounting131HISTHistory166Sign Language & Interpreting200BUSCBusiness: Business Communications132HTHistorchology165SLService Learning200BUSCBusiness: Law133IDInterior Design167SOCSociology201BUSMBusiness: Anagement133IDInterior Design167SPANSpanish202BUSMBusiness: Real Estate135ITALItalian167STDYStudy Techniques205BUSSBusiness: Sales, Merchandising & Marketing136JAPNJapanese170SURVSurveying205CHMTChemical Technology137LATNLatin171THTRTheact Arts206CHINChinese140LCOMLearning Communities172TRANTransportation206CHINChinese140LEADLearning Assistance Services171THTRTheater Arts206CISDComputer Information Systems: Beginning141LiBrary & Instructional Media172WAIRWater Technology207CISDComputer Informa | | | | | | | | |
| BIOLBiology130GERMGerman163READReading198BTNYBotany131HISTHistory164RESDRespiratory Therapy199BUSABusiness: Accounting131HRMHospitality & Restaurant Management166SIGNSign Language & Interpreting200BUSCBusiness: Business: Business Communications132HTHistotechnology165SLService Learning200BUSCBusiness: Economics132HUMAHumanities167SOCSociology201BUSLBusiness: Law133IDInterior Design167SPANSpanish202BUSKBusiness: Real Estate133IINSPInspection & Estimating, Building167SPCHSpeech203BUSKBusiness: Real Estate135ITALItalian167SPCHSpeech203BUSKBusiness: Sales, Merchandising & Marketing136JAPNJapanese170SURVSurveying205BUSKBusiness: Sales, Merchandising & Marketing136JAPNJapanese170SURVSurveying205CHMTChemical Technology137JOURJournalism170TECHTechnology & Related Courses205CHMTChemical Technology137LATNLatin171THTRTheater Arts206CHINChinese140LCOMLearning Communities172TRANTransporta | | Art History 128 | | Geography | 161 | | | |
| BTNYBotany131HISTHistory164RESDRespiratory Therapy199BUSABusiness: Accounting131HRMHospitality & Restaurant Management166SIGNSign Language & Interpreting200BUSCBusiness: Business: Business Communications132HTHistotechnology165SLService Learning200BUSCBusiness: Economics132HTHistotechnology165SLService Learning200BUSLBusiness: Law133IDInterior Design167SOCSociology201BUSRBusiness: Real Estate133INSPInspection & Estimating, Building167SPCHSpeech203BUSRBusiness: Sales, Merchandising & Marketing136JAPNJapanese170SUWSurveying205BUSSBusiness: Sales, Merchandising & Marketing137JOURJournalism170TECHTechnology & Related Courses205CHMTChemistry137LATNLatin171THTRTheater Arts206CHIDChild Development138LEADLeadership171TUTRTutor Training207GRAPComputer Information Systems: Beginning141LIBRLibrary & Instructional Media172WELDWelding207CISDComputer Information Systems: Database142LITEnglish: Literature157WELDWelding207 | | , | | 57 | | | | |
| BUSABusiness: Accounting131HRMHospitality & Restaurant Management166SIGNSign Language & Interpreting200BUSCBusiness: Business: Communications132HTHistotechnology165SLService Learning200BUSCBusiness: Economics132HUMAHumanities167SOCSociology201BUSLBusiness: Law133IDInterior Design167SPANSpanish202BUSMBusiness: Management133IDInterior Design167SPCHSpeech203BUSRBusiness: Real Estate135ITALItalian167STDYStudy Techniques205BUSSBusiness: Sales, Merchandising & Marketing136JAPNJapanese170SURVSurveying205BUSSBusiness: Sales, Merchandising & Marketing136JAPNJapanese170SURVSurveying205CHEMChemistry137JOURJournalism170TECHTechnology Related Courses205CHEMChild Development138LEADLeadership171THTRThasportation206CHLDChild Development138LEADLeadership171WATRWater Technology207CISBComputer Information Systems: Beginning141LIBRLibrary & Instructional Media172WELDWelding207CISDComputer Information Systems: Database142LIT< | | | | | | | | |
| BUSCBusiness: Business: Communications132HTHistotechnology165SLService Learning200BUSCBusiness: Economics132HUMAHumanities167SOCSociology201BUSLBusiness: Law133IDInterior Design167SPANSpanish202BUSMBusiness: Real Estate133INSPInspection & Estimating, Building167SPCHSpeech203BUSSBusiness: Real Estate135ITALItalian167STDYStudy Techniques205BUSSBusiness: Sales, Merchandising & Marketing136JAPNJapanese170SURVSurveying205CHEMChemistry137JOURJournalism170SURVSurveying205CHEMChemistry137LATNLatin171THRTheater Arts206CHINChinese140ICOMLearning Communities172TRANTransportation206CHDChild Development138LEADLeadership171TUTRTheater Arts206CISBComputer Information Systems: Beginning141LIBRLibrary & Instructional Media172WELDWelding207CISDComputer Information Systems: Database142LITEnglish: Literature157157157 | | , , | | | | | | |
| BUSCBusiness: Economics132HUMAHumanities167SOCSociology201BUSLBusiness: Law133IDInterior Design167SPANSpanish202BUSMBusiness: Management133INSPInspection & Estimating, Building167SPCHSpeech203BUSRBusiness: Real Estate135ITALItalian167STDYStudy Techniques205BUSSBusiness: Sales, Merchandising & Marketing136JAPNJapanese170SURVSurveying205CHMTChemical Technology137JOURJournalism170TECHTechnology & Related Courses205CHEMChemistry137LATNLatin171THTRTheater Arts206CHINChinese140LCOMLearning Communities172TRANTransportation206CHLDChild Development138LEADLeadership171TUTRTutor Training207GRAPComputer Information Systems: Beginning141LIBRLibrary & Instructional Media172WELDWelding207CISDComputer Information Systems: Database142LITEnglish: Literature1575757 | | 5 | | | | | | |
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| ADMINISTRATION OF JUSTICE: LAW ENFORCEMENT ADJU 1 — The Administration of Justice System 3 Units Degree Applicable, CSU, UC begree Applicable, CSU, UC begre | 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; interviews and interrogation; follow up and case preparation. | 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 system, and electronic flight instrumentation systems. |
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| 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 3 Units Degree Applicable, CSU, UC 54 hours lecture Provides an overview of California criminal law from the perspective of the law enforcement officer. | 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 and Corrections 3 Units Degree Applicable, CSU 54 hours lecture Advisory: Eligibility for ENGL 68, and ADJU 1 | ■ 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. | Contemporary street and prison gang issues, including historical and current perspectives, gang dynamics, identification of characteristics, and cultural differences of gang philosophy. Includes law enforcement and correction?s role in intervention and suppression. ADJU 68 — Administration of Justice Report Writing 3 Units Degree Applicable | ■ AERO 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 Community problems and policing. Focus on service image, diversity, human relations, crises and confrontations with the public. ADJU 6 — Concepts of Enforcement Services 3 Units Degree Applicable | 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 case law dealing with vice; detection and suppression; | ■ AERO 27 — Aviation Safety and Human Factors 3 Units Degree Applicable, CSU 54 hours lecture <i>Advisory: AERO 23</i> 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. |
| 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 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. | AERONAUTICS AERONAUTICS 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 Engines 3 Units Degree Applicable, CSU 54 hours lecture Advisory: AERO 23 Aircraft 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 Regulations 2 Units Degree Applicable, CSU 36 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. |

| ■ AERO 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 45A — Multi-Engine Turbine Aircraft Operations 3 Units Degree Applicable 54 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 62A — Clinical Pathology 4 Units Degree Applicable, CSU 54 hours lecture 54 hours lab Prerequisite: AGHE 86 Hematology, clinical chemistries, internal parasites, immunology, serology, and vaginal cytology of domestic animals. AGHE 62B — Clinical Pathology 4 Units Degree Applicable, CSU |
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| ■ AERO 40 — Flight 1 Unit Degree Applicable (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, and military flight training. | Degree Applicable 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: ANIMAL HEALTH TECHNOLOGY | 54 hours lecture 54 hours lab Prerequisite: AGHE 86 Bacteriology, clinical chemistry, urinalysis, external parasites and cytology of domestic animals. ■ 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 |
| AERO 40L — Flight Laboratory 1 Unit Degree Applicable (May be taken four times for credit) (May be taken for Pass/No Pass only) 54 hours lab <i>Corequisite: AERO 40</i> <i>Advisory: AERO 23 taken prior or concurrently</i> | 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 60 — Medical Nursing and Animal Care 4 Units | 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. |
| 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 May be taken for Pass/No Pass only) | Degree Applicable, CSU 54 hours lecture 54 hours lab <i>Prerequisite: AGHE 86 and formal admittance to the Registered Veterinary</i> <i>Technology program</i> 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 65 — Veterinary Radiography 2 Units Degree Applicable, CSU 18 hours lecture 54 hours lab Prerequisite: Formal admittance to the Registered Veterinary Technology Program Basic 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; |
| 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. AERO 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. | AGHE 61 — Surgical Nursing 4 Units Degree Applicable, CSU 54 hours lecture 54 hours lab <i>Prerequisite: AGHE 60</i> Surgical preparation, surgical assistance, post-operative care, administer and monitor anesthesia, dentistry, CPR, sterilization and the maintenance of a sterile environment. | contrast radiography and ultrasound imaging. Emphasizes performance of x-ray procedures for the veterinary practitioner. AGHE 79 — Laboratory Animal Medicine and Care 3 Units Degree Applicable, CSU 36 hours lecture 54 hours lab Laboratory animal medicine, care and procedures, rules and regulations governing laboratory animals. |

COURSE DESCRIPTIONS

| A GHE 83A — Work Experience in Animal Health 1 to 2 Units Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken four times for credit) (May be taken for Pass/No Pass only) 75 to 150 hours lab Prerequistic: Formal admittance in the Registered Veterinary Technology Program. Compliance with Work Experience regulations as designated in the College Catalog. A GAN 2 — Animal Nutrition 3 units 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. A GAN 2 — Animal Mutrition 3 units Degree Applicable, CSU, UC 54 hours lab Prequisite: Compliance with Work Experience regulations as designed to provide Animal Science majors with a cual on-the-job experience in an approved work station which is related to dassroom instruction. A minimum of 75 paid clock hours or 60 non-paid clock hours or 60 non-paid clock hours or 60 non-paid clock hours per week are equally distributed throughout the semester. Students who repeat this course will improve skills through further instruction and practice. A GAN 2 — Animal Mandling and Restraint 3 Units Degree Applicable, CSU, UC 54 hours lab Spring field study course in the collection, handling and analysis of fees, unine and blood samples of pet and domestic farma animals. Experiences with animals will and physical techniques including for large and small animals, including treatments and minor surgical procedures with school domestic farma animals. Experiences with animals Will and spring. A GAH 8 24B — Speciences with animals with school domestic farma animals. Experiences with animals with colling production rates and dilements. The definition of the reciproces and easonal dimenses for the collection, handling and analysis of fees, unine and blood samples of pet and domestic farma animals. Experiences with animals With and the sense for students whore deta threshours per coucle |
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| Degree Applicable Degree Applicable 18 hours lecture Prerequisite: Completion of the Registered Veterinary Technology program froup study course designed to prepare students for national and state vetinary technician registration examinations, question analysis strategies, and review of important anatomical, physiological, and nursing concepts. AGRICULTURE: FORESTRY, CONSERVATION May be taken for Pass/No Pass only) A GRE 86 — Anatomy and Physiology of Domestic Animals 4 Units Degree Applicable, CSU, Usegree Applicable, CSU, bioecretion organizations. Emphasis on temperate forest, tropical forest, desert, and grassland ecosystems. J Units Degree Applicable, CSU, S4 hours lecture May be taken for Pass/No Pass only) 54 hours lab Degree Applicable, CSU, Prerequisite: Eligibility for ENGL 68 Concepts of conservation biology for natural resources, including tooservation organizations. Emphasis on temperate forest, tropical forest, desert, and grassland ecosystems. May be taken for Pass/No Pass only) 54 hours lab Degree Applicable, CSU, Verequisite: Eligibility for ENGL 68 Concepts of conservation biology for natural resources, including tooservation organizations. Emphasis on temperate forest, tropical forest, desert, and grassland ecosystems. Mag Electure Prerequisite: Course Applicable, CSU, Nalyzes 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. AGRI CULTURE: GENERAL SUBJECTS AGRI 12 — Exotic Animal Management a Clobal Perspective 54 hours lecture S4 hours lecture <t< td=""></t<> |

| AGLI 14 — Swine Production 3 Units Degree Applicable, CSU 36 hours lecture 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 and Management 4 Units Degree Applicable, CSU, UC 54 hours lecture 54 hours lab Selection, utilization, and management of the light horse. Emphasis is on evaluation, health care, and handling skills. AGLI 17 — Sheep Production 3 Units Degree Applicable, CSU | AGLI 30 — Beef Production 3 Units Degree Applicable, CSU 36 hours lecture 54 hours lab Principles 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. 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 carcass evaluation. AGLI 96 — Animal Sanitation and Disease Control 3 Units Degree Applicable, CSU | 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. 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. AGOR 13 — Landscape Design 3 Units Degree Applicable, CSU 36 hours lecture Market and implementation of landscape design. Principles of |
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| 36 hours lecture 54 hours lab A 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. | 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. ■ AGLI 97 — Artificial Insemination of Livestock 2 Units Degree Applicable | 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. Field trips and off-campus assignments required. AGOR 15 — Interior Landscaping 3 Units |
| AGLI 18 — Horse Ranch Management 4 Units Degree Applicable, CSU 54 hours lecture 54 hours lab <i>Advisory: AGLI 16</i> 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. | 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 | Addw 13 — Interior Lanuscaping Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture 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. Image: AGOR 24 — Integrated Pest Management 3 Units Degree Applicable, CSU |
| AGLI 19 — Horse Hoof Care 2 Units Degree Applicable, CSU 18 hours lecture 54 hours lab Emphasizes proper horse hoof care; shoeing, trimming and disease recognition and control. | 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. | 36 hours lecture 54 hours lab Identifies common agricultural pests in Southern California and analyzes physical, biological and chemical pest control principles and practices, including integrated pest management (IPM). Stresses use, safety, equipment, laws, and regulations of pesticides. |
| ■ AGLI 20 — Horse Behavior and Training 2 Units Degree Applicable 18 hours lecture 54 hours lab <i>Corequisite: AGLI 16 or AGLI 18 (may have been taken previously) or</i> <i>equivalent experience with horses.</i> 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. | ■ AGOR 2 — Plant Propagation/Greenhouse Management 3 Units Degree Applicable, CSU 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. | ■ AGOR 29 — Ornamental Plants - Herbaceous 3 Units Degree Applicable, CSU, UC 36 hours lecture 54 hours lab 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 Nurserymen (CAN) and California Landscape Contractors Association (CLCA) certification test plant lists. |

| AGOR 30 — Ornamental Plants - Trees and Woody Shrubs 3 Units Degree Applicable, CSU, UC 36 hours lecture 54 hours lab 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 Nurserymen (CAN) and California Landscape Contractors Association (CLCA) certification test plant lists. AGOR 32 — Landscaping and Nursery Management 3 Units | ■ AGOR 51 — Tractor and Landscape Equipment Operations 3 Units Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture 54 hours lab Selection, operation, repair and maintenance of power equipment used in the landscape industry. Includes two- and four-wheel drive tractors, skip loaders, skid steer loaders, backhoes, lawnmowers, edgers, weed eaters, blower vacuums, rototillers, chainsaws, spraying equipment and all-terrain vehicles. Laboratory includes use of this equipment. | AGOR 56 — Engine Diagnostics 3 Units Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture 54 hours lab Analysis and evaluation of tractor engine power failures with hands-on experience in the proper diagnostic procedures of power equipment. Includes service, maintenance and repair of tractor electrical systems: electrical wiring, voltage regulators, generators, alternators, switches, gauges, batteries and test equipment. |
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| Degree Applicable, CSU 36 hours lecture 54 hours lab Advisory: AGOR 1 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; | ■ AGOR 52 — Hydraulics 3 Units Degree Applicable, CSU 36 hours lecture 54 hours lab Operation, maintenance, and repair of hydraulic systems used for agriculture and industrial equipment. Emphasis on pumps, valves, cylinders, flow control, reservoirs, lines, motors, and hydrostatic transmissions. | ■ AGOR 57 — Power Train Repair 3 Units Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture 54 hours lab Service, maintenance, and repair of power trains. Includes clutches, transmissions, differentials, power take-off units, and final drives used to transmit power on tractors and other outdoor power equipment. |
| federal, state and local laws and regulations. Field trips are included. 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 I 3 Units Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture 54 hours lab Principles and repair of small engines used in landscape, industrial and agricultural applications. Includes repairs of lawnmowers, chainsaws, 2-cycle engines, 4-cycle engines, spraying equipment, all-terrain vehicles, and other related gas-powered equipment. AGOR 54 — Small Engine Repair II 3 Units | ■ AGOR 62 — Landscape Irrigation - Design and Installation 3 Units Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture 54 hours lab Design and installation 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. |
| Image: AGOR 40 | Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture 54 hours lab Advanced 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 63 — Landscape Irrigation Systems Management 3 Units Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture 54 hours lab Systematic approach to water conservation in landscapes. 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 evaluation. AGOR 64 — Landscape Irrigation - Drip and Low Volume 3 Units Docume Applicable |
| ■ AGOR 50 — Soil Science and Management 3 Units Degree Applicable, CSU, UC 36 hours lecture 54 hours lab 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. | ■ AGOR 55 — Diesel Engine Repair 3 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. | Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture 54 hours lab Conservation of water in landscapes by utilization of drip and low-flow irrigation practices. Design, installation techniques, operation and maintenance of drip and low-flow irrigation systems, including determination of irrigation requirements, selection of emitters and low- flow devices, and uniformity of water distribution. Includes hands-on experience in design and installation techniques. |

| 36 hours lecture Advisory: AIRC 12 and AIRC 25 Indicentions intervides in testidential and light commercial heating installations including the properties of fuel gases, gas combustion, furnace construction, pilot proving devices and ignition systems. I AIRC 61 — Building Automation Fundamentals 2.5 Units 72 hours lab 36 hours lecture 36 hours lecture 36 hours lecture 37 hours lab 72 hours lab Marce 30 — Heat Load Calculations and Design Advisory: AIRC 20 taken prior 4 Units 54 hours lecture 3 units 72 hours lab AIRC 63 — Building Control Networks 3 Units 54 hours lecture 3 units 74 hours lab AIRC 63 — Building Automation Networks 3 Units 54 hours lecture 3 builts control het structure. Heat load of the structure. Heat load adiging based on the Heat Load of the structure. Heat inducting and Refrigeration AIRC 65 — Building Automation Networks 3 Units 54 hours lab AIRC 31 — Commercial Electrical for Air Conting and Refrigeration Based programming Bergee Applicable Autorial Administration (FAA). Students will lear about air Control stand and log to commercial air conditioning and refrigeration geuipment strais. Bergee Applicable AIRC 41 — Terminal Air Taffic control separatalog commercial HVAC direct digital controllers using | 36 hours lecture Advisory: AIRC 12 and AIRC 25 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 and Design 4 Units: Degree Applicable 72 hours lecture Advisory: AIRC 20 taken prior Heat loss and heat gain will be examined, developed and applied to residential dwellings air conditioning systems. Equipment sizing, selection and duct design based on the Heat Load of the structure. Heat Load calculation software will be explored and used to aid in the process. AIRC 31 — Commercial Electrical for Air Conditioning and Refrigeration Degree Applicable S4 hours lecture S4 hours lab Advisory: AIRC 25 taken prior Electrical control of commercial air conditioning and refrigeration equipment emphasizing time clocks, defrost, three phase transformers, three phase motors, timers, sequencers, starting methods and | AIRC 34 — Advanced Mechanical Refrigeration 4 Units Degree Applicable S4 hours lecture S4 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. AIRC 61 — Building Automation Fundamentals 2.5 Units Degree Applicable 36 hours lecture To hours lab Basics of commercial HVAC control theory as it applies to electric, pneumatic, and digital control systems. Principles of chiller plant operation, air distribution, Variable Air Volume, constant air systems, and multizone systems. AIRC 63 — Building Control Networks AIRC 63 — Building Automation Networks Building Control Network implementations and protocol standards including web based applications, BACnet, Ethernet, LonTalk, and proprietary systems. Routers, installation, and troubleshooting will also be studied. AIRC 65 — Building Automation Networks Builtis Builtis bours lab Programming HVAC direct digital controllers using line (text) programming, icon based programming, and template programming. Stresses good programming practices including complete program | semester. Students who repeat this course will improve skills through further instruction and practice. AIR TRAFFIC CONTROL AIRT 41 — Aircraft Recognition and Performance 3 Uni Degree Applicable, CS 54 hours lecture Advisory: AERO 23 Designed for students who want to become air traffic controllers for th Federal Aviation Administration (FAA). Students will learn to recognize the distinctive features of aircraft, identify types of aircraft, classify aircraft as to FAA category and class, and analyze aircraft for performance characteristics required for air traffic control separation. Commercial Pilot majors are encouraged to take the class as an elective course. AIRT 42A — Terminal Air Traffic Control 3 Uni Degree Applicable, CS 54 hours lecture Advisory: AERO 23 and AIRT 41 Designed for students who want to become air traffic controllers for th Federal Aviation Administration (FAA). Students will learn about aircraft operation in the National Airspace System, control tower operations, terminal radar control, radio communication techniques and |
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| AIRT 42B — Enroute Air Traffic Control Degree Applicable, CSU Degree Applicable, CSU S4 hours lecture Advisory: AERO 23 and AIRT 41 Enroute air traffic control operations in the National Airspace System. Includes radar and non-radar separation rules, enroute air traffic control clearances, emergencies and search and rescue, and future air traffic control technologies. This course is designed for students who want to become air traffic controllers for the Federal Aviation Administration (FAA). 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 47 — Work Experience in Air Traffic Control 1 Unit 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 On-the-job experience in an approved FAA work station. 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 | AIRCRAFT MAINTENANCE TECHNOLOGY AIRM 65A — Aircraft Powerplant Maintenance Technology 13 Units 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 Technology major. AIRM 65B — Aircraft Powerplant Maintenance Technology 13 Units Degree Applicable, CSU 108 hours lecture 376 hours lab Reciprocating and turbine engine systems and components. Approved and required for the FAA powerplant certification and Airframe and Aircraft Powerplant Maintenance Technology 13 Units Degree Applicable, CSU 108 hours lecture 376 hours lab Reciprocating and turbine engine systems and components. Approved and required for the FAA powerplant certification and Airframe and Aircraft Powerplant 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 Airframe and Aircraft Powerplant Maintenance Technology major. AIRM 66B — Airframe Maintenance Technology 13 Units Degree Applicable, CSU 108 hours lecture 376 hours lab | AIRM 70B — Aircraft Maintenance Electricity and Electronics Degree Applicable basic principles of alternating current, terminology, units and circuit arrangements, alternators, inverters and related controls, derating of switches and circuit breakers, capacitors, inductors, transistors, cathode ray tubes, digital electronics, microprocessors, computers, power distribution systems for large aircraft. Approved by the FAA and required for the Airframe and Aircraft Powerplant Maintenance Technology major. AIRM 71 — Aviation Maintenance Science 6 Units Degree Applicable 108 hours lecture Federal aviation regulations, interpretation of aircraft drawings, basic physics, technical mathematics, and aircraft weight and balance computations. FAA approved course required of all aircraft powerplant and airframe maintenance technology majors. AIRM 72 — Aviation Materials and Processes 1.5 Units Degree Applicable 18 hours lecture 6 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. |
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| are equally distributed throughout the semester. Students who repeat this course will improve skills through further instruction and practice. AIRT 51 — Air Traffic Control Laboratory 1 Unit Degree Applicable 54 hours lab <i>Advisory: AERO 23, AERO 26, AERO 29</i> 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 <i>Advisory: AIRT 51 and AERO 30 taken prior or concurrently</i> 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. | Airframe systems and components. Approved and required for the FAA and required airframe certification and the Airframe and Aircraft Powerplant Maintenance Technology major. AIRM 70A — Aircraft Maintenance Electricity and Electronics 3 Units Begree Applicable 36 hours lecture 72 hours lab Advisory: AIRM 71 Basic electrical theory including units, terminology, applications of 0hm's Law in series and parallel circuits, nickel cadmium and lead acid storage batteries, generators and related control circuits, electrical wiring practices, and electrical measuring instruments construction and use. Approved by the FAA and required for the Airframe and Aircraft Powerplant Maintenance Technology Major. | AIRM 73 — Aviation Welding 1.5 Units Degree Applicable 18 hours lecture 36 hours lab Advisory: AIRM 70B, AIRM 72 (May be taken concurrently) 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 - Work Experience Degree Applicable (May be taken for Pass/No Pass only) 90 hours lab 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 will have the student perform aircraft maintenance work under direct supervision at a maintenance facility. |

| Maintenance Technology | AIRM 92A — Airframe Maintenance Technology 3 Units Degree Applicable | ■ AIRM 96A — Aircraft Powerplant Maintenance Technology 3 Units Degree Applicable |
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| Degree Applicable (May be taken four times for credit) (May be taken for Pass/No Pass only) 27 to 54 hours lab 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 | 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. |
| 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 36 hours lecture 72 hours lab Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73 | ■ 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 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 and Aircraft Powerplant Maintenance Technology Major. Required for EAA and Figure 10. |
| A FAA approved course covering aircraft flight, flight control and construction methods and procedures. AIRM 90B — 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 structural designs, station numbers, aviation nomenclature and definitions. Approved by the FAA and required for the Airframe and Aircraft Powerplant Maintenance Technology major. | AIRM 93A — Airframe Maintenance Technology 3 Units Degree Applicable 6 hours lecture 72 hours lab Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73 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 | |
| AIRM 91A — 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 wood structures, their coverings and finishes. Approved by the FAA and required for the Airframe and Aircraft Powerplant Maintenance Technology major. 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 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. | 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 95A — Aircraft Powerplant 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> A FAA approved course covering piston powerplant theory. Includes calculations and construction methods. AIRM 95B — Aircraft Powerplant 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> A FAA approved course covering piston powerplant theory. Includes calculations and construction methods. AIRM 95B — Aircraft Powerplant 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> A FAA approved course covering piston engine overhaul, inspection, and troubleshooting procedures. | Degree Applicable 36 hours lecture 72 hours lab <i>Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73</i> Reciprocating engine and turbine engine fuels, fuel metering devices, and system operation. Approved by the FAA and required for the Airframe and Aircraft Powerplant Maintenance Technology major. I AIRM 98A — Aircraft Powerplant 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> Reciprocating and turbine engine ignition system theory and operation. Approved by the FAA and required for the Airframe and Aircraft Powerplant Maintenance Technology major. |

■ AIRM 98B — Aircraft Powerplant Maintenance Technology 3 Units AD 6 — Dual Diagnosis 3 Units AD 14 — Advanced Internship/Seminar 4 Units Degree Applicable, CSU Degree Applicable, CSU Degree Applicable 36 hours lecture 54 hours lecture (May be taken for Pass/No Pass only) 72 hours lab Overview of the complex interactions of mental disorders and chemical 27 hours lecture Advisory: AIRM 70A, AIRM 70B, AIRM 71, AIRM 72, AIRM 73 dependency. Reviews and examines the key areas involving dual 126 hours lab Reciprocating and turbine engine lubricants and lubricating systems. diagnosis: definition, diagnosis, treatment and aftercare. Advisory: AD 10 and AD 13 The second of a two-semester sequence in which the student applies Approved by the FAA and required for the Airframe and Aircraft AD 8 — Group Process and Leadership 3 Units Powerplant Maintenance Technology major. the values, concepts and skills gained from previous courses to the Degree Applicable actual process of helping chemically dependent persons. ALCOHOL DRUG COUNSELING 54 hours lecture Advisory: AD 1, AD 2, AD 3 taken prior and AD 4, AD 5, AD 6 taken prior or AMERICAN LANGUAGE ■ AD 1 — Alcohol/Drug Dependency 3 Units concurrently Degree Applicable, CSU AMLA 215 — Accent Reduction 2 Units Introduces the theory and practice of group counseling, the group 54 hours lecture Not Degree Applicable process and dynamics of group interaction. (May be taken for option of letter grade or Pass/No Pass) Presents an overview of alcohol and chemical dependencies and ■ AD 9 — Family Counseling 3 Units ramifications. Explores the impact these dependencies have upon the 36 hours lecture individual's social, psychological, economic, physiological well-being, Degree Applicable Pronunciation and listening for non-native speakers with emphasis on 54 hours lecture community and family concerns. Examines the "myths," images, and articulation, stress and intonation patterns, and listening. Students will Advisory: AD 1, AD 2, AD 3 taken prior and AD 4, AD 5, AD 6 taken prior or stereotypes about substances and substance abusers. Includes analyze individual pronunciation strengths and weaknesses. concurrently familiarization with terms. AMLA 225 — American Language 2 Units Introduces the theory and practice of family counseling. Topics include, AD 2 — Physiological Effects of Alcohol/Drugs Interpersonal Communication 3 Units family systems and dynamics, effects of chemical dependency, and Not Degree Applicable Degree Applicable, CSU counseling techniques. (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture 36 hours lecture ■ AD 10 — Client Record and Documentation 1.5 Units Examines in-depth the physiological effect of alcohol and other drugs Enhances ability of non-native speakers to communicate in everyday Degree Applicable on the human body. Includes aspects of tolerance, habituation, cross tolerance and synergistic effect. 27 hours lecture and academic situations. Emphasis on grammatical accuracy and sophisticaton as well as confidence in communications in pesonal and Advisory: AD 1, AD 2, AD 3 taken prior and AD 4, AD 5, AD 6 taken prior or ■ AD 3 — Chemical Dependency: Intervention, **3 Units** concurrently professional settings. **Treatment and Recovery** Identify documentation methods required by government regulatory Degree Applicable, CSU AMLA 235 — American Language Formal Speaking 2 Units bodies in clinical records. Emphasis on biopsychosocial history. 54 hours lecture Not Degree Applicable (May be taken for option of letter grade or Pass/No Pass) Examines and analyzes the tools and techniques necessary in moving ■ AD 11 — Techniques of Intervention and Referral 3 Units the chemically dependent individual into the treatment process: the Degree Applicable 36 hours lecture Advisory: Eligibility for AMLA 41W varying types of treatment programs, and the essentials of effective 54 hours lecture Enhances the ability of non-native speakers to listen effectively and recovery. Advisory: AD 1, AD 2, AD 3 taken prior and AD 4, AD 5, AD 6 taken prior or concurrently speak formally in a variety of situations. Emphasis is on note-taking, AD 4 — Issues in Domestic Violence 3 Units Study and practice techniques used for crisis and beginning counseling, outlining, organizing speeches, and verbal articulation of ideas. **Degree Applicable** intake interviewing and referral. Using an experiential format, AMLA 24 — Idiomatic English 54 hours lecture 2 Units participants will learn and practice skills in attentive listening, Examines the history, law and psychology of domestic violence; Not Degree Applicable recognizing and responding to different levels of client communication. cultural/social aspects; relationship to substance abuse. (May be taken for option of letter grade or Pass/No Pass) AD 13 — Internship/Seminar 4 Units 36 hours lecture ■ AD 5 — Chemical Dependency: Prevention 1.5 Units Degree Applicable, CSU Intermediate course in the study of idiomatic language, including and Education common American idioms and proverbs, as used in everyday language (May be taken for Pass/No Pass only) Degree Applicable, CSU 27 hours lecture situations 27 hours lecture 126 hours lab Reviews and examines drug prevention effectiveness, at both the AMLA 31R — American Language Basic Reading 4 Units Advisory: AD 1, AD 2, AD 3, AD 4, AD 5, AD 6, and six units of Restricted Electives private and public level. Appraises personal attitudes, past and present, Not Degree Applicable taken prior and AD 8, AD 9, AD 10, AD 11 taken prior or concurrently and their influence on societal norms. Evaluates current prevention (May be taken for option of letter grade or Pass/No Pass) The first of a two-semester sequence which places students in programs and the necessary steps for developing, funding and 72 hours lecture Alcohol/Drug Abuse agencies and organizations. This first semester managing a program. Prerequisite: Satisfactory score on appropriate Reading Placement Test or emphasizes growth in self-awareness and professionalism, interviewing successful completion of noncredit ESL Level 4 skills and group process skills. Basic reading and vocabulary for non-native speakers.

Course Descriptions

Section 10 119

| ■ AMLA 32R — American Language Intermediate Reading 4 Units 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 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. | 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 |
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| ■ AMLA 33R — American Language Advanced Reading 4 Units Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 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 58 — American Language Verb Review II 1 Unit 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. | reproductive systems (including human genetics and embryology). ANAT 35 — Human Anatomy 5 Units Degree Applicable, CSU, UC 54 hours lecture 108 hours lab Prerequisite: BIOL 1 or BIOL 4 or BIOL 4H |
| ■ AMLA 41W — American Language Basic 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 noncredit ESL Level 4 Advisory: AMLA 31R taken prior or concurrently | AMLA 59 — American Language Prepositions 1 Unit Not Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 18 hours lecture Spoken and written practice in prepositions for non-native English learners. Students will analyze prepositions and idiomatic expressions through reading and will apply their knowledge to written work. | Structure of the organ systems at the gross, subgross, and microscopic levels based on human material and dissection of the cat. Designed to serve as an introduction to vertebrate embryology. ANAT 36 — Human Physiology 5 Units Degree Applicable, CSU, UC 54 hours lecture 108 hours lab |
| 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 | AMLA 60 — American Language Verb Review III 1 Unit Not Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 18 hours lecture Advanced work on gerunds, infinitives and participles for non-native English students. Exercises and writing practice will emphasize | Prerequisite: ANAT 35, and CHEM 10 or CHEM 40 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. ■ ANAT 40A — Human Prosection 2 Units Degree Applicable, CSU |
| Advisory: AMLA 32R taken prior or concurrently Intermediate grammar and writing for non-native speakers. 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 | improved verb usage in writing. 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 Spoken and written practice in noun, verb, adjective, and adverb word forms for non-native English students. | (May be taken four times for credit) 108 hours lab <i>Prerequisite: ANAT 35</i> Techniques for human prosection. Regional exploration of superficial and deep human muscles at the gross level. Anatomy 40A and 40B must be taken in sequence in order to receive credit for college level |
| 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. | ANATOMY AND PHYSIOLOGY ANAT 10A — Introductory Human Anatomy 4 Units Degree Applicable, CSU, UC 54 hours lecture | prosection. ANAT 40B — Human Prosection 2 Units Degree Applicable, CSU 108 hours lab Prerequisite: ANAT 40A |
| ■ 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. | 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. | Techniques for human prosection. Regional exploration of the human organ systems at the gross level with emphasis on the organs, blood vessels and nerves of the body cavities. |

| ANAT 50 — Basic Anatomy and Physiology 3 Units Degree Applicable 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 | ■ ANTH 5 — Principles of Cultural Anthropology 3 Units Degree Applicable, CSU, UC 54 hours lecture 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. | ■ ARAB 2 — Continuing Elementary Arabic 4 Units Degree Applicable, CSU, UC 72 hours lecture <i>Prerequisite: ARAB 1 or equivalent</i> 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. |
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| ANTH 1 — Biological Anthropology 3 Units 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 studies, and the hominid palentological record are stressed. ANTH 1H — Biological Anthropology - Honors 3 Units | ■ ANTH 22 — General Cultural Anthropology 3 Units 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 | ARCHITECTURAL TECHNOLOGY ARCH 10 — Design I - Elements of Design 3 Units Degree Applicable, CSU, UC Ga hours lecture T2 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. |
| Degree Applicable, CSU, UC 54 hours lecture <i>Prerequisite: Acceptance into the Honors Program</i> 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 example, more student directed discussions and more extensive writing assignments. Students may not receive credit for both ANTH 1 and ANTH 1H. | Americans. This course may meet the cultural diversity requirement at transfer universities. ANTH 30 — The Native American Begree Applicable, CSU, UC S4 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. ANTH 99 — Special Projects in Anthropology 2 Units | ARCH 11 — Architectural Drawing 3 Units Degree Applicable, CSU, UC 36 hours lecture 71 hours lab Advisory: Eligibility for MATH 51 Architectural drawing techniques, including graphic standards, scales, orthographic, paraline, and perspective projections. ARCH 12 — Architectural Materials and Specifications 4 Units Degree Applicable, CSU 54 hours lecture |
| ANTH 1L — Biological Anthropology Laboratory 1 Unit Degree Applicable, CSU, UC 54 hours lab <i>Corequisite: ANTH 1 or ANTH 1H (may have been taken previously)</i> 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. ANTH 3 — Archaeology 3 Units Degree Applicable, CSU, UC | 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 consideration. Students repeating this course will make individual contracts of a more advanced nature with the instructor to ensure that proficiencies are enhanced. | 54 hours lab Advisory: Eligibility for MATH 51 Building materials and specifications used in architecture and construction. Includes a lab component of common building material applications. Field trips are required. ARCH 13 — Architectural Illustration 3 Units Degree Applicable, CSU, UC 36 hours lecture 71 hours lab Advisory: ARCH 11 Architectural and interior illustration including perspective drawing, sketching, shades and shadows, entourage, and color application |
| (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture <i>Prerequisite: Eligibility for ENGL 68</i> Introduction to the aims, methods and ethics of archaeological research and their application to the archaeological record, in contrast to popular depictions of archaeology. Topics include the evolution of culture from the earliest stone toolmakers to the primary civilizations of the Old and New Worlds, with emphasis on the invention and spread of agriculture and the impact of this change on prehistoric cultures. | ARABIC ARAB 1 — Elementary Arabic 4 Units Degree Applicable, CSU, UC 22 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. | and shadow, encodage, and color application utilizing various media and development of project portfolio. ARCH 14 — Building and Zoning Codes 3 Units Degree Applicable, CSU 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 15 — Architectural Working Drawings - I 3 Units Degree Applicable, CSU 36 hours lecture 72 hours lab Advisory: ARCH 11, ARCH 12, ARCH 14, and eligibility for MATH 51 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 reachered | 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 presentation applications of integrated 2-D and 3-D CAD models will be produced. | ARCH 89 — Architectural Work Experience May be taken four times for credit) (May be taken for Pass/No Pass only) 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 explicit the provide actual on-the-provide actua |
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| will be produced. ARCH 16 — Basic CAD and Computer Application 4 Units Degree Applicable, CSU, UC 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). | ■ 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 and (civil) engineering. Portfolio will be produced. | architecture 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. 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 architecture. Students who repeat this course will improve skills through further instruction and practice. ART: ANIMATION |
| ARCH 18 — Architectural CAD and BIM 3 Units Degree Applicable 36 hours lecture 71 hours lab Advisory: ARCH 11 or ARCH 16 3-D Computer Aided Design and Drafting (CAD) and Building Information Modeling (BIM) for architectural design and design | ■ ARCH 28 — Architectural CAD Illustration and Animation 3 Units Degree Applicable, CSU 36 hours lecture 71 hours lab <i>Advisory: ARCH 18</i> Architectural CAD 3-D illustration, rendering and animation. Virtual walk-through and fly-through videos of interior and exterior 3-D models with photo-realistic materials and lighting will be produced. | ANIM 101A — Drawing - Gesture and Figure 3 Units Degree Applicable, CSU 36 hours lecture 71 hours lab Contemporary and traditional approaches to sketching 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. |
| Degree Applicable, CSU, UC 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 | ARCH 29 — Design IV - Advanced Project 3 Units Degree Applicable, CSU Bours lecture hours lab Advisory: ARCH 23, ARCH 27 or equivalent experience Advanced design seminars and complex building design projects in architecture, including portfolio development. ARCH 31 — World Architecture I 3 Units Degree Applicable, CSU, UC | ANIM 101B — Figure Gesture - Design 3 Units Degree Applicable 36 hours lecture 71 hours lab <i>Prerequisite: ANIM 101A (formerly ANIM 101)</i> Contemporary and traditional approaches to sketching the human figure using drawing techniques for rapid visualization. Emphasizes and develops elements of design for the purposes of visual communication and storytelling. |
| drawings and construction principles. Portfolio will be produced. ARCH 23 — Architectural Presentations 3 Units Degree Applicable, CSU, UC 36 hours lecture 72 hours lab <i>Advisory: ARCH 10, ARCH 11 taken prior</i> Analysis and preparation of architectural presentation projects, including schematic and final design, architectural models, oral presentation techniques, board layouts using hand-drawn and computer-aided techniques, and development of project portfolio. | 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 32 — World Architecture II 3 Units Degree Applicable, CSU, UC S4 hours lecture Development of modern architecture from the Renaissance to the present day. Influence of environment, religion and socio-economic movements on architecture. | ANIM 101C — Figure Gesture - Design 3 Units Degree Applicable 36 hours lecture 71 hours lab <i>Prerequisite: ANIM 101A</i> Contemporary and traditional approaches to sketching the human figure using drawing techniques for rapid visualization. Emphasizes and develops personal interpretation, individual expression, and media exploration. |

| Degree Applicable, CSU 36 hours lecture 72 hours lab 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. Image: Anily 107 Figure in Motion 3 Units Degree Applicable 3 Units Orgone Applicable 3 Units (May be taken four times for credit) 36 hours lecture 72 hours lab Prerequisite: ANIM 101 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. Image: Anim 108 Principles of Animation 3 Units Degree Applicable, CSU 36 hours lecture 71 hours lab Principles of Animation concentrating on the mechanics of movement, timing, and emotion for the creation of expressive line drawings. 36 hours lecture 71 hours lab Principles of animation including mechanics of motion, weighted movement, lip sync and expression applied to story, staging, and character development. Focus will be on the animated film process from scrip to storyboards, timing sheets, key posing, inbetweening and clean up through the c | Degree Applicable 18 hours lecture 36 hours lab Prerequisite: ANIM 111A Contemporary and traditional approaches to sketching animals using drawing techniques for rapid visualization. Emphasizes and develops elements of design for the purposes of visual communication and storytelling Requires several off-campus field trips. ANIM 115 — Storyboarding 3 Units Degree Applicable, CSU 36 hours lecture 71 hours lab Prerequisite: ARTD 15A or ANIM 104 Storyboarding with emphasis on storytelling, cinematography, drawing, and notation as it relates to the animation industry. ANIM 116 — Character Development 1.5 Units Degree Applicable 18 hours lecture 36 hours lab Prerequisite: ARTD 15A or ANIM 104 Techniques for innovation and development of animated characters. Observation of details for drawings of character attitude, personality, movement, posing, point-of-view, dialog/mouth positions, body language, and development of consistent drawing techniques for model sheets. ANIM 117 — Animation Background Layout 3 Units Degree Applicable, CSU 36 hours lecture 71 hours lab Prerequisite: ARTD 15A or ANIM 104 Techniques for innovation and development of animated characters. Observation of details for drawings of character attitude, personality, movement, posing, point-of-view, dialog/mouth positions, body language, and development of consistent drawing techniques for model sheets. ANIM 117 — Animation Background Layout 3 Units Degree Applicable, CSU 36 hours lecture 71 hours lab Prerequisite: ARTD 15A or ANIM 104 Principles of design, composition and story as applied to layout and background creation for animation. Industry appropriate drawing and painting techniques exploring rendering, modeling, light logic, perspective, color, space and environments are included. ANIM 118 — Background Painting 3 Units Degree Applicable 36 hours lecture 71 hours lab | Degree Applicable 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 121 — Nature and History of Animation 3 Units Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture History of animated film and its relationship to the disciplines of art, communication, theater, music, literature, film making, philosophy, and world history. Includes early pioneers through current visionaries, social influences that affected the development of animated film and the social impact of the animated product, and the differences between live action film and inanimate, nonliving objects in a variety of forms such as two-dimensional, clay, or computer created. ANIM 130 — Introduction to 3-D Computer Animation 3 Units Degree Applicable, CSU 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 131 — Introduction to Gaming 3 Units Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture 71 hours lab <i>Prerequisite: GRAP 10</i> The field of game design including the principles, tools, and strategies for designing various types of games. ANIM 132 — Modeling, Texture Mapping and Lighting 3 Units Degree Applicable |
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| Advanced principles of animation including mechanics of motion, weighted movement, lip sync and expression applied to story, staging, and character development. Focus will be on the animated film process from script to storyboards, timing sheets, key posing, inbetweening and clean up through the completion of a final animation. | background creation for animation. Industry appropriate drawing and painting techniques exploring rendering, modeling, light logic, perspective, color, space and environments are included. ANIM 118 — Background Painting 3 Units Degree Applicable 36 hours lecture | Prerequisite: GRAP 10 The field of game design including the principles, tools, and strategies for designing various types of games. ANIM 132 — Modeling, Texture Mapping and Lighting 3 Units Degree Applicable |

| ANIM 134 — Visual Effects I: Dynamics 1.5 Units Degree Applicable 18 hours lecture 18 hours lab Advisory: ANIM 132 Advanced course exploring the animation techniques called dynamics. Covers building material for 3-D objects using bitmaps to create 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 | ANIM 146 — Advanced 3-D Animation 3 Units Degree Applicable 36 hours lecture 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 1.5 Units Degree Applicable 18 hours lecture | ARTC 120 — Graphic Design II 3 Units Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture 71 hours lab <i>Prerequisite: ARTC 70 or ARTC 100</i> Graphic design concepts, theories, and strategies for the design and layout of printed commercial art. Covers typical printed products including advertisements, flyers, brochures, posters, newsletters, books, and catalogs. Focuses on using Adobe InDesign with additional exposure to Photoshop and Illustrator. |
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| 36 hours lab Advisory: ANIM 134 Advanced course in the creation of computer animated particle systems that imitate the natural forces of nature, the physical forces of the universe and plasma forces of combustion. ANIM 136 — Animation Environment Layout 3 Units Degree Applicable 36 hours lecture | 36 hours lab Prerequisite: ANIM 130 Production of a demo-reel representative of student interest, strength and skill for entry into animation fields, professional schools or baccalaureate institutions. ANIM 172 — Motion Graphics, Compositing and Visual Effects Degree Applicable, CSU | ■ ARTC 140 — Graphic Design III 3 Units Degree Applicable 36 hours lecture 71 hours lab <i>Prerequisite: ARTC 70 ir ARTC 100</i> Digital illustration, design, skills, and concepts working primarily with vector art. Focuses on using Adobe Illustrator as the primary development tool. |
| 71 hours lab Advisory: ANIM 130 and ANIM 132 Create a digital 3D environment. Design, model, texture, and light a 3D digital environment for a computer graphics game, TV program or film. ANIM 137A — Work Experience in New Digital Media Degree Applicable (May be taken four times for credit) (May be taken for Pass/No Pass only) | (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture 71 hours lab <i>Prerequisite: ARTC 70</i> Elements of motion graphics: design, typography, animation, compositing, visual effects, and editing in a production environment (i.e. TV, Film, DVD, or Web) using industry standard software. ANIM 175 — Web Animation With Flash 3 Units Degree Applicable | ■ ARTC 160 — Typography 3 Units Degree Applicable 36 hours lecture 71 hours lab <i>Prerequisite: ARTC 100</i> Design and use of basic letterforms, type families, characteristics, history, and principles of typography in graphic design. Traditional and digital skills for the art of typeface design, typographic layout, expressive typography, and conceptual thinking. |
| 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. ANIM 145 — Advanced 3-D Modeling 3 Units Degree Applicable Aours lab | 36 hours lecture 71 hours lab Prerequisite: ARTC 70 or ARTC 100 Principles of animation using Adobe Flash for web and multimedia. ART: ADVERTISING DESIGN/GRAPHICS ARTC 100 — Graphic Design I 3 Units Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture 71 hours lab Advisory: ARTD 15A, ARTD 20, or PHOT 4 | ARTC 165 — Illustration 3 Units Degree Applicable, CSU 36 hours lecture 71 hours lab <i>Corequisite: ARTD 20 or ARTD 15A or ARTD 17A or ANIM 101 or ANIM 104</i> <i>(may have been taken previously)</i> Introduction to contemporary illustration with an emphasis on story, editorial, and advertising applications. 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. |
| <i>Advisory: ANIM 132</i> An advanced course in 3-D modeling with a focus on designing, modeling, and rigging a character for animation. | Contemporary graphic design for the commercial arts industry. Covers technology, creativity, design, and production. Focuses on using Adobe Photoshop to produce effective commercial art. Additional exposure to Adobe Illustrator and other professional production tools. | ■ ARTC 200 — Web Design 3 Units Degree Applicable 36 hours lecture 71 hours lab <i>Prerequisite: ARTC 100</i> Design, usability, production, and marketing of web site development using contemporary methods including XHTML, CSS, and contemporary tools including Adobe Dreamweaver and Flash. Web-focused multimedia concepts, including animation and video integration are explored. |

| ARTC 220 — Graphic Design IV 3 Units Degree Applicable 36 hours lecture 71 hours lab Prerequisite: ARTC 100 Advanced graphic design concepts and skills working with Adobe Photoshop and other graphic design applications. ARTC 240 — Multimedia Design 3 Units Degree Applicable 36 hours lecture 71 hours lab Prerequisite: ARTC 74 or ARTC 200 Multimedia design and development using a variety of professional software and tools. Focus is on the web as the primary, although not exclusive, delivery channel for multimedia. Covers technical skills including intermediate web design, basic video editing, basic sound editing, and basic animation. Covers creative and conceptual skills including interface design, clarity of communication, and user experience. ARTC 280 — Commercial Art Studio - Special Projects 4 Units Degree Applicable (May be taken for Pass/No Pass only) 36 hours lecture 108 hours leture 108 hours lecture 108 hours lecture 108 hours lecture 108 hours leture 109 hours leture 100 hours leture 100 hou | 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 120 and ARTC 220 Provides students with on-the-job experience in graphic design, web design, media design, advertising design, illustration or other graphic design related field in an approved work site. 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 experience. ART: BASIC STUDIO ARTS ARTB 1 — Understanding the Visual Arts Degree 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 36 hours lecture 72 hours lab Prerequisite: Eligibility for ENGL 68 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. | ARTG 21A — Introduction to Exhibition Production 3 Units Degree Applicable, CSU 36 hours lecture 71 hours lab <i>Prerequisite: ARTG 20</i> Concepts and hands-on applications of curatorial processes, management skills, and gallery operations. The professional side of the arts with emphasis on contemporary art, theories and media will be explored. Field trips required. ARTG 21B — Intermediate Exhibition Production 3 Units Degree Applicable, CSU 36 hours lecture 71 hours lab <i>Prerequisite: ARTG 21A</i> Exhibition planning, research, operation and management. Art as a profession, with emphasis on historical and contemporary terms, theories, movements and media in the context of an art exhibition production. Field trips required. ARTG 22A — Exhibition Design and Art Gallery Operation Work Experience Degree Applicable (May be taken four times for credit) 75 to 225 hours lab <i>Prerequisite: ARTG 21B</i> Provides on-the-job experience in exhibition design and art gallery operation at an approved work site related to the 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. ARTZ 50 — Specialized Studio-Art Studies 2 Units Degree Applicable, CSU (May be taken four times for credit) 18 hours letue 54 hours lab <i>Prerequisite: Satisfactory completion of all courses within a given art emphasis</i> Extended studio experiences supplementary to those available in the course 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 contracts of a more advanced and complex studio projects and experiments. Emphasis is placed upon the d |
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| ART: THREE-DIMENSIONAL STUDIO ARTS | | |
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| ARTS 22 — Design: Three-Dimensional 3 Units Degree Applicable, CSU, UC 36 hours lecture 71 hours lab <i>Prerequisite: Eligibility for ENGL 68</i> Develops perception and enhances decision making within the three- dimensional world. Emphasis is placed on concept development and | ARTS 33 — Ceramics: Hand Construction 3 Units Degree Applicable, CSU, UC 36 hours lecture 72 hours lab Introduction to clay, glazes and firing through projects that are hand built. Emphasis is on developing skills and vocabulary and analysis of form, function, aesthetics and craftsmanship through projects, discussion and oral/written criticism. | ARTS 41A — Sculpture: Life 3 Units Degree Applicable, CSU, UC 36 hours lecture 72 hours lab 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. |
| artistic expression utilizing principles and elements of three- dimensional design as well as practical experiments with various media. ARTS 30A — Ceramics: Beginning I 3 Units Degree Applicable, CSU, UC 36 hours lecture 71 hours lab Clay, glazes and firing through lecture and projects in hand building and on the wheel. Emphasis on developing skills, vocabulary, analysis of form, function and aesthetics through projects, oral and written criticism. Field trip required. | ARTS 34 — The Sculpture Vessel 3 Units Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 18 hours lecture 108 hours lab Prerequisite: ARTS 30A Advisory: ARTS 33 Advanced study of the ceramic vessel through the integration of technique, form and content. Field trips required. ARTS 40A — Sculpture: Beginning 3 Units | ARTS 41B — Sculpture: Life 3 Units Degree Applicable, CSU, UC (May be taken four times for credit) 36 hours lecture 72 hours lab <i>Prerequisite: ARTS 41A</i> Sculptural study of the 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 |
| ARTS 30B — Ceramics: Beginning II 3 Units Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture 71 hours lab <i>Prerequisite: ARTS 30A</i> Clay, glazes and firing. Emphasis is on repetition of forms, integrating | Degree Applicable, CSU, UC 36 hours lecture 72 hours lab 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. | figure. ARTS 42 — Sculpture: Mold Making 3 Units Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture 71 hours lab Construction and use of flexible and plaster molds. |
| hand building and wheel work for a single object, using up to 5 pounds of clay and developing vocabulary, skill and aesthetics. Field trip required. ARTS 31A — Ceramics: Intermediate 3 Units Degree Applicable, CSU, UC 36 hours lecture 72 hours lab Prerequisite: ARTS 30B | ARTS 40B — Sculpture: Beginning 3 Units Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture 71 hours lab <i>Prerequisite: ARTS 40A</i> Advanced projects in subtractive, additive and manipulative approaches are explored. | ■ ARTS 46A — Sculpture: Special Effects Makeup 3 Units Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture 71 hours lab <i>Advisory: ARTS 42</i> Modeling, molding, casting of makeup appliances and masks to the human figure. |
| Integrating materials and design through advanced problems in the techniques of clay construction, glazing and firing. | ARTS 40C — Sculpture: Carving Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture 71 hours lab Prerequisite: ARTS 40A Advanced projects in stone or wood carving offering the opportunity to further explore carving using hand, power and pneumatic tools. Emphasis is on individual interpretation. | ARTS 46B — Sculpture: Special Effects Makeup 3 Units Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture 71 hours lab <i>Prerequisite: ARTS 46A</i> Sculpture special effects modeling, molding and casting techniques and materials applied to create appliances for the full human head, torso or mouth. |
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| ARTS 99 — Sculpture Special Studies 2 Units Degree Applicable (May be taken four times for credit) 107 hours lab Prerequisite: ARTS 22 or ARTS 40A or ARTS 41A Extended sculpture experiences supplementary to those available in sculpture courses. Allows the student to pursue more advanced and complex sculpture projects with emphasis on the development of an individual creative direction. Content of each course and the methods of study vary from semester to semester. Students repeating this course will make individual contracts of a more advanced nature with the instructor to ensure that proficiencies are enhanced. ART: TWO-DIMENSIONAL STUDIO ARTS ARTD 15A — Drawing: Beginning 3 Units Degree Applicable, CSU, UC 36 hours lecture 71 hours lab | ARTD 17B — Drawing: Life 3 Units Degree Applicable, CSU, UC 36 hours lecture 72 hours lab Prerequisite: ARTD 17A Extends and expands the principles and techniques introduced in ARTD 17A. More emphasis is placed on personal interpretation, individual expression, and media exploration. 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 | ARTD 23C — Drawing: Expressive Heads and Hands 1.5 Unit Degree Applicable 18 hours lecture 36 hours lab Prerequisite: ARTD 23 Explores contemporary and traditional approaches to sketching the human head and hands. Emphasis is placed on personal interpretation, individual expression, and media exploration. ARTD 25A — Beginning Painting I 3 Unit Degree Applicable, CSU, UG 36 hours lecture 71 hours lab Development of basic paint applications in various styles and subjects focusing on the formal elements of compositoin, light logic, and color. ARTD 25B — Beginning Painting II 3 Unit Degree Applicable, CSU, UG 36 hours lecture |
| An entry level course emphasizing creative expression through the use of drawing media. Emphasis is placed on basic drawing methods and skills, composition and exploration of drawing media. ARTD 15B — Drawing: Intermediate 3 Units Degree Applicable, CSU, UC 36 hours lecture 71 hours lab <i>Prerequisite: ARTD 15A</i> Drawing course emphasizing perceptual and technical skills to cmpose in dry and fluid media. Uses the formal elements and principles in black, wite and color in representational and expressionistic styles. ARTD 16 — Drawing: Perspective 3 Units Degree Applicable, CSU, UC 36 hours lecture | Write arcs, Study will emphasize the fundamental organization and workings of the two-dimensional picture plane in black/white and achromatic value and basic color mixing. ARTD 21 — Design: Color and Composition 3 Units Degree Applicable, CSU, UC 36 hours lecture 71 hours lab <i>Prerequisite: ARTD 20</i> Color theory and relationships of pigment and light. Emphasis on color harmonies, color matching, the effects of light, color perception and expression in their application to design and composition and as used in all disciplines of the arts. ARTD 23A — Drawing: Head and Hands 1.5 Units Degree Applicable, CSU, UC | 71 hours lab Prerequisite: ARTD 25A Creation of large paintings through various styles including mixed media. Includes conceptualization and communication of ideas and solving compositional and technical painting problems with a variety o materials. ARTD 26A — Intermediate Painting I 3 Unit Degree Applicable, CSU, U 36 hours lecture 71 hours lab Prerequisite: ARTD 25B Creation of large paintings focusing on conceptual issues and art historical influences. Conceptualization of work is done by responding t current and past art movements and popular culture in order to create unique artworks. |
| 72 hours lab Prerequisite: ARTD 15A or ANIM 104 Drawing using the elements and principles of linear perspective with lights and shadows to represent natural and fabricated forms. Emphasizes methods and techniques directly related to the artist's needs. ARTD 17A — Drawing: Life 3 Units Degree Applicable, CSU, UC 36 hours lecture 72 hours lab Prerequisite: ARTD 15A or ANIM 104 Explores 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. | 36 hours lab Prerequisite: ARTD 15A or ANIM 104 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. I ARTD 23B — Drawing: Advanced Heads and Hands 1.5 Units Degree Applicable 18 hours lecture 36 hours lab Prerequisite: ARTD 23 Explores contemporary and traditional approaches to drawing the human head and hands. Emphasizes and develops techniques for rendering as well as capturing a likeness. | ARTD 26B — Intermediate Painting II 3 Unit: Degree Applicable, CSU, UG 36 hours lecture 71 hours lab <i>Prerequisite: ARTD 26A</i> Development of a personal style focusing on conceptual issues and art historical influences. Students will conceptualize their work by responding to current and past art movements and popular culture in order to create unique artworks. |

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| ARTD 27 — Painting: Watercolor 3 Units Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture 71 hours lab | ARTD 45A — Printmaking: Introduction to Screenprinting 3 Units Degree Applicable, CSU 36 hours lecture 71 hours lab Creative techniques in fine art screenprinting printmaking. Emphasis is | contemporary context, and craftsmanship are developed through projects, discussion, and oral and written criticism. Field trips may be required. ARTD 99 — Figure Drawing Special Studies 2 Units Degree Applicable | |
| Prerequisite: ARTD 15A or ARTD 20 or ARTD 25A Basic watercolor techniques as they relate to compositional and 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. | on developing skills, vocabulary and critical understanding of the different stencil methods used in serigraphy. Screenprinting's aesthetics, historical context and role in contemporary society are examined through projects, discussion of craftsmanship and content by oral and written discussion and criticism. Field trips may be required. | (May be taken four times for credit) 108 hours lab <i>Prerequisite: ARTD 17A, ANIM 101A, or ARTD 23A</i> Specialized studies exploring advanced and complex figure drawing projects with emphasis on the development of an individual creative | |
| ARTD 43A — Introduction to Printmaking 3 Units Degree Applicable, CSU 36 hours lecture | ■ ARTD 45B — Printmaking: Intermediate Screenprinting 3 Units Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) | direction. Content of each course and the methods of study vary from semester to semester. ART HISTORY | |
| 71 hours lab Creative techniques in fine art printmaking using relief and intaglio processes. Emphasis is on developing skills, vocabulary and analysis of its aesthetics, historical context, cultural traditions and craftsmanship through projects, discussion, and oral and written criticism. Field trips may be required. | 36 hours lecture 71 hours lab <i>Prerequisite: ARTD 45A</i> Complex multi-color registration in screenprinting. Emphasis on registration of colors, exploration of printing on a variety of substrates, and integration of social and political issues in print design. Field trips may be required. | AHIS 1 — Understanding the Visual Arts 3 Units Degree Applicable, CSU, UC 54 hours lecture <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 | |
| ARTD 43B — Intermediate Printmaking in Intaglio/Relief 3 Units Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture 71 hours lab Prerequisite: ARTD 43A Creation of complex editioned color prints in relief and intaglio printmaking from multiple matrices. Focus is on color registration, project collaboration, and learning how to combine different printing techniques in order to realize personal artistic expression. Field trips | ARTD 46A — Introduction to Painterly Printmaking 3 Units Degree Applicable, CSU 36 hours lecture 71 hours lab Printmaking methods including carborundum prints and collography with the main focus on monotype and monoprint. Emphasis on developing skills in painterly approaches to printmaking, its vocabulary, and critical understanding of its aesthetics, historical context and craftsmanship through projects, discussion, and oral and written | 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 Fundamentals of visual art forms and the role art plays in various historical periods and cultures. An honors course designed to provide an enriched experience. Students may not receive credit for both AHIS 1 (formerly ARTA 1) and AHIS 1H. | |
| may be required. ARTD 44A — Printmaking: Introduction to Lithography I 3 Units Degree Applicable, CSU 36 hours lecture 71 hours lab Creative techniques in planographic printmaking using lithography. Emphasis is on skill development, vocabulary expansion, and critical analysis of aesthetics, historical context, and craftsmanship through projects, discussion, and oral and written criticism. Field trips may be required. | criticism. Field trips may be required. ARTD 46B — Intermediate Painterly Printmaking 3 Units Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture 71 hours lab Prerequisite: ARTD 46A Painterly printmaking techniques such as viscosity etchings and the complexities of simultaneous relief and intaglio printing inherent in collography. Emphasis on achieving personal artistic expression. Field trips may be required. | 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 artists in the history of art and the representation of gender in a variety of cultures and time periods. AHIS 3H — History of Women and Gender in Art - Honors 3 Units Degree Applicable, CSU, UC 54 hours lecture Prerequisite: Acceptance into the Honors Program 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 artists in the history of art and the representation of gender in a variety of cultures and time periods. An honors course designed to provide an enriched experience. Students may not receive credit for both AHIS 3 (formerly ARTA 3) and AHIS 3H. | |
| ■ ARTD 44B — Printmaking: Intermediate Lithography 3 Units Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture 71 hours lab <i>Prerequisite: ARTD 44A</i> Single and multi-color composition in lithographic printmaking. Focus is on techniques in stone lithography, color registration, and composition issues. Field trips may be required. | ARTD 47A — Printing: Alternative Methods Relief 3 Units and Intaglio Degree Applicable, CSU 36 hours lecture 71 hours lab Non-toxic printmaking processes that use a variety of light sensitive polymer plates for intaglio and relief, preparation of imagery with digital means, and combining these techniques with traditional processes. Vocabulary and critical understanding of aesthetics, | | |

Course Descriptions AHIS 12H — History of Precolumbian Art - Honors 3 Units Degree Applicable, CSU, UC

54 hours lecture

3 Units

3 Units

3 Units

3 Units

3 Units

Degree Applicable, CSU, UC

Degree Applicable, CSU, UC

Degree Applicable, CSU, UC

Degree Applicable, CSU, UC

Prerequisite: Acceptance into the Honors Program The arts of Pre-Columbian Mesoamerica and Andean South America. Major monuments of sculpture, painting, architecture, ceramics and textiles from civilizations including the Maya, Aztecs, and Inca will be examined in their cultural contexts. An honors course designed to provide an enriched experience. Students may not receive credit for both AHIS 12 (formerly ARTA 12) and AHIS 12H.

| Degree Applicable, CSU, UC | AHIS 99 — Special Projects in Art History | 2 Units |
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| | | Degree Applicable, CSU |
| Aajor monuments of | (May be taken four times for credit) | |
| sual art forms are studied | (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 proficiencies are enhanced.

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, and galaxies; results of space exploration and modern cosmology. Enroll in ASTR 5L to receive laboratory science credit. Field trips may be required.

ASTR 5H — Introduction to Astronomy - Honors 3 Units Degree Applicable, CSU, UC

54 hours lecture

Prereauisite: Eliaibility for ENGL 1A: acceptance into Honors Program

An honors course designed to provide an enriched experience. A nontechnical survey of the Universe. Fundamental concepts and facts of astronomy. Topics include the origin and evolution of planets, stars, and galaxies; results of space exploration and modern cosmology. Enroll in ASTR 5L to receive laboratory science credit. Field trips may be required. Students may not receive credit for both ASTR 5H and ASTR 5.

Advisory: Eligibility for ENGL 68 Degree Applicable, CSU, UC A critical history of Greek and Roman art before 500 CE. Works of art 54 hours lecture and architecture will be examined in their cultural contexts. Historical Western art from the Renaissance through Modern periods, perceptions of Classical art and culture and their impact on Europe and demonstrating the relationship of various visual art forms to each other America will be studied. and to the cultural context in which they were produced. AHIS 11 — History of African, Oceanic, and AHIS 5H — History of Western Art: Renaissance **3 Units** Native American Art **Through Modern - Honors** Degree Applicable, CSU, UC 54 hours lecture 54 hours lecture Advisory: Eliaibility for ENGL 1A Prerequisite: Acceptance into the Honors Program Examination of the traditional arts of African tribes and kingdoms, Western art from the Renaissance through Modern periods Oceania and Australia, and Native North America. Visual arts including demonstrating the relationship of various visual art forms to each other painting, sculpture, architecture, body decoration, and ritual objects will and to the cultural context in which they were produced. An honors be studied in their cultural contexts. course designed to provide an enriched experience. Students may not AHIS 12 — History of Precolumbian Art receive credit for both AHIS 5 (formerly ARTA 5) and AHIS 5H. AHIS 6 — History of Modern Art 3 Units 54 hours lecture Degree Applicable, CSU, UC Advisory: Eligibility for ENGL 68 54 hours lecture The arts of Pre-Columbian Mesoamerica and Andean South America.

AHIS 6H — History of Modern Art - Honors

Prerequisite: Acceptance into the Honors Program

AHIS 9 — History of Asian Art

within their religious and cultural contexts.

AHIS 10 — A History of Greek and Roman Art

and Architecture

Examines the artistic movements, influences, and individuals who have

international and multicultural character of Modern art will be explored

An honors course designed to provide an enriched experience. Students

may not receive credit for both AHIS 6 (formerly ARTA 6) and AHIS 6H.

formed the Modern tradition. Emphasis is on the 20th century; the

An examination of Asian artistic traditions. Major monuments of

painting, sculpture, architecture and other visual art forms are studied

Major monuments of sculpture, painting, architecture, ceramics and

studied in their cultural contexts.

textiles from civilizations including the Maya, Aztecs, and Inca will be

3 Units

3 Units

3 Units

54 hours lecture

54 hours lecture

54 hours lecture

Degree Applicable, CSU, UC

Degree Applicable, CSU, UC

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.

AHIS 4 — History of Western Art: Prehistoric

AHIS 4H — History of Western Art: Prehistoric

Prerequisite: Acceptance into the Honors Program

credit for both AHIS 4 (formerly ARTA 4) and AHIS 4H.

■ AHIS 5 — History of Western Art: Renaissance

Through Modern

Through Gothic - Honors

An examination of Western 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.

Western art from the Prehistoric through Gothic periods demonstrating

cultural context in which they were produced. This is an honors course

designed to provide an enriched experience. Students may not receive

the relationship of various visual art forms to each other and to the

Through Gothic

Prerequisite: Eligibility for ENGL 68

54 hours lecture

54 hours lecture

COURSE DESCRIPTIONS

| ■ BIOL 15H — Human Sexuality - Honors 3 Units Degree Applicable, CSU, UC 54 hours lecture <i>Prerequisite: Acceptance into the Honors Program</i> Surveys biological, behavioral, cultural and ethical aspects of human sexuality. Contains mature and sexually explicit content. An honors course designed to provide an enriched experience. Students may not receive credit for both BIOL 15 and BIOL 15H. | BIOL 34L — Fundamentals of Genetics Lab 1 Unit Degree Applicable, CSU 54 hours lab <i>Corequisite: BIOL 34 (May have been taken previously)</i> Experiments and problem solving in genetics including Mendelian Genetics, linkage and recombination, cell division, mutation, molecular genetics including use of PCR and electrophoresis, population genetics, and bioinformatics. | BUSINESS: ACCOUNTING BUSA 7 — Principles of Accounting - Financial 5 Units Degree Applicable, CSU, UC 90 hours lecture Prerequisite: BUSA 11 or eligibility for MATH 51 Advisory: Eligibility for ENGL 1A Introduction to financial accounting required of Business Administration and Accounting majors. Defines financial accounting and its relevance to |
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| ■ 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 50 — Biology Basic Skills .5 Unit Not Degree Applicable (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 | business decision makers, accounting concepts and techniques, analysis and recording of financial transactions, and preparation, analysis and interpretation of financial statements focusing on application of generally accepted accounting practices. Includes asset, liability, and equity valuation, revenue and expense recognition, cash flow, internal controls, ethics, and financial statement analysis. General Ledger Accounting Software program is integrated throughout and used to complete various homework assignments. |
| 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. | 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. | ■ BUSA 8 — Principles of Accounting - Managerial 5 Units Degree Applicable, CSU, UC 90 hours lecture <i>Prerequisite: BUSA 7</i> 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 |
| BIOL 21 — Marine Biology Laboratory 1 Unit 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 | ■ 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 billion extension of the students academic interests and | 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. |
| environment. Emphasizes the structure and functional biology of marine invertebrates and vertebrates, ecology of intertidal organisms and ecology of estuaries. Field trips required. BIOL 24 — Introduction to Public Health 3 Units Degree Applicable, CSU 54 hours lecture <i>Prerequisite: Eligibility for ENGL 68</i> Public health concepts and practice by examining the philosophy, purpose, Prevention of the philosophy of the phil | 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 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 <i>Prerequisite: BUSA 68 or eligibility for MATH 50</i> 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. |
| history, organization, function, tools, activities and outcomes of public health practice at the global, national, state, and community levels. Instruction prepares students to identify and assess important national and international problems and ethical issues facing public health today. | BOTANY BTNY 3 — Plant Structures, Functions, and Diversity 5 Units Degree Applicable, CSU, UC 54 hours lecture | BUSA 21 — Cost Accounting 4 Units Degree Applicable 72 hours lecture 18 hours lab |
| BIOL 34 — Fundamentals of Genetics 3 Units Degree Applicable, CSU, UC 54 hours lecture Prerequisite: BIOL 4 or BIOL 4H Explores theory and applications of genetics. Major topics include Mendelian and molecular genetics, mechanisms of inheritance, gene expression, linkage and chromosome mapping, mutations and evolution, population genetics, and ethical and moral implications of DNA technology. | 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 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. | Prerequisite: BUSA 8 Practical and theoretical concepts of cost accounting. Includes variable and fixed costs, cost-volume-profit analysis, job order and process costing, activity-based costing, general and flexible budgeting, standard costs, product costing/pricing methods, cost allocation, inventory management, capital budgeting, and transfer pricing. |

| BUSA 52 — Intermediate Accounting 3 Units Degree Applicable 54 hours lecture <i>Prerequisite: BUSA 8</i> Detailed review of basic accounting concepts and principles and an in- depth analysis of the balance sheet and income statement. Emphasis is placed on the changing nature of principles and practices, the application of present-value concepts, the complexity of transactions that arise in a complex economic environment and the use of accounting information in decision making. | BUSA 71 — Personal Financial Planning 3 Units Degree Applicable, CSU 54 hours lecture Personal and family financial planning for those who wish to understand their own finances across the lifespan and assist others in money management. Topics include financial goal setting, budgeting, consumer credit, debt management, banking functions, income taxes, home ownership, insurance, investing, and retirement planning. Students may not earn credit for both BUSA 71 and FCS 80. BUSA 72 — Bookkeeping - Accounting 5 Units | BUSINESS COMMUNICATIONS 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 |
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| BUSA 53 — Ten-Key Calculations 2 Units Degree Applicable 18 hours lecture 54 hours lab <i>Prerequisite: BUSA 68 or eligibility for MATH 50</i> 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. | Degree Applicable 90 hours lecture Prerequisite: BUSA 68 or eligibility for MATH 50 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. BUSA 75 — Using Microcomputers in Financial Accounting 1 Unit | 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. BUSO 26 — Oral Communications for Business 3 Units Degree Applicable |
| BUSA 58 — Federal Income Tax Law 3 Units Degree Applicable 54 hours lecture Prerequisite: BUSA 7 or BUSA 72 Federal and state income tax laws as related to individuals, partnership and corporation taxation including interpretations of recent changes. | Degree Applicable 18 hours lecture <i>Prerequisite: BUSA 7 or BUSA 72</i> Application of basic accounting concepts utilizing a computerized 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 | (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture Oral communication used in business situations such as training sessions, presentations, professoinal discussions, and telephone interactions. BUSO 96A — Business Vocabulary 1.5 Units |
| Emphasis is placed on individual income taxes and related problems in research through the use of a federal tax reporting service. | practice set will be required. BUSA 76 — Using Microcomputers in 1 Unit | Degree Applicable (May be taken for option of letter grade or Pass/No Pass) |
| BUSA 68 — Business Mathematics 3 Units Not Degree Applicable 54 hours lecture Reviews addition, subtraction, multiplication, division, decimals, percentages, fractions, sign numbers, equations and problem solving. | Managerial Accounting Degree Applicable 18 hours lecture Prerequisite: BUSA 7 or BUSA 72 Analyze financial data and prepare managerial accounting reports using | 27 hours lecture Develops a broad word command of new and specialized business vocabulary for use in various businesses. Improves vocabulary to enhance written and oral communication BUSINESS: ECONOMICS |
| BUSA 70 — Payroll and Tax Accounting 3 Units 54 hours lecture | 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. | BUSC 1A — Principles of Economics - Macroeconomics 3 Units Degree Applicable, CSU, UC |
| Prerequisite: Eligibility for BUSA 11 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. | ■ BUSA 81 — Work Experience in Accounting 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 <i>Prerequisite: Compliance with Work Experience regulations as designated</i> <i>in the College Catalog</i> <i>Advisory: BUSA 7 or BUSA 72</i> Provides accounting students with actual on-the- job experience 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. Work experience placement is not guaranteed but assistance is provided. Students who repeat this course will improve skills through further instruction and practice. | 54 hours lecture Prerequisite: Eligibility for ENGL 1A, and successful completion of MATH 71 or MATH 71B or MATH 71X Principles of aggregate economic analysis; economic cycles including recession, unemployment, inflation and economic growth; national income accounts; money and financial institutions; monetary and fiscal policy; alternative economic viewpoint; budget deficits and public debts; international trade and finance. |

| ■ BUSC 1AH — Principles of Economics - Macroeconomics 3 Units | BUSINESS: LAW | BUSM 20 — Principles of Business 3 Units |
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| - Honors - Honors Degree Applicable, CSU, UC 54 hours lecture Prerequisite: Acceptance into the Honors Program and MATH 71, or MATH 71B, or MATH 71X Principles of aggregate economic analysis; economic cycles including recession, unemployment, inflation and economic growth; national income accounts; money and financial institutions; monetary and fiscal | BUSL 18 — Business Law 3 Units Degree Applicable, CSU, UC 54 hours lecture <i>Prerequisite: Eligibility for ENGL 68</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 | Degree Applicable, CSU, UC 54 hours lecture <i>Prerequisite: Eligibility for ENGL 68</i> 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. |
| policy; alternative economic viewpoint; budget deficits and public debts; international trade and finance. An honors course designed to provide an enriched experience. Students may not receive credit for both BUSC 1A and BUSC 1AH. BUSC 1B — Principles of Economics - Microeconomics 3 Units Degree Applicable, CSU, UC 54 hours lecture <i>Prerequisite: BUSC 1A or BUSC 1AH</i> Economic analysis with emphasis on price and distribution theory, | secured transactions. BUSL 18H — Business Law - Honors 3 Units Degree Applicable, CSU, UC S4 hours lecture Prerequisite: Acceptance into the Honors Program 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 experience. Students may not receive credit for both BUSL 18 and BUSL | ■ BUSM 25 — Principles of E-Commerce 3 Unit: Degree Applicable 54 hours lecture Advisory: Eligibility for ENGL 68 or BUSO 5 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. |
| 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 regulation; comparative economic systems. BUSC 1BH — Principles of Economics - Microeconomics 3 Units - Honors Degree Applicable, CSU, UC 54 hours lecture Prerequisite: BUSC 1A or BUSC 1AH | 18H. BUSL 19 — Advanced Business Law Segree Applicable, CSU, UC 54 hours lecture <i>Advisory: BUSL 18</i> Principles of business law emphasizing commercial paper, agency, partnerships, corporations, bankruptcy, regulation of trade and real property. | BUSM 50 — World Culture: A Business Perspective 3 Unit Degree Applicable, CSU 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. BUSM 51 — Principles of International Business 3 Unit Degree Applicable, CSU |
| Economic analysis with emphasis on price and distribution theory, 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. | BUSL 20 — International Business Law 3 Units Degree Applicable 54 hours lecture Advisory: Eligibility for ENGL 68 A comparative approach to the study of the international legal environment for business. Cultural, political, economic and ethical issues are emphasized as well as traditional business law subjects such as sales, commercial paper, corporate law, agency, licensing, employment, | 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 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. |
| ■ BUSC 17 — Applied Business Statistics 3 Units Degree Applicable, CSU, UC 54 hours lecture <i>Prerequisite: MATH 71</i> Statistical reasoning and application of primary statistical techniques 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 numbers. | crimes, trade regulation and technology transfers. BUSINESS: MANAGEMENT BUSM 10 — Principles of Continuous Quality 3 Units Improvement Degree Applicable 54 hours lecture Advisory: Eligibility for ENGL 68 or BUSO 5 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. | ■ BUSM 52 — Principles of Exporting and Importing 3 Units Degree Applicable, CSU 54 hours lecture Advisory: Eligibility for ENGL 68 or BUSO 5 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. |

| 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 effectiveness with emphasis on communications, motivation, leadership and other related areas. | 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 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. | ■ PLGL 35A — Law Office Procedures 3 Units Degree Applicable, CSU 54 hours lecture <i>Advisory: PLGL 30</i> Examines procedures utilized by a paralegal in a law office. Includes knowledge of court systems, preparation and filing of legal papers and court documents, and drafting specialized documents in such areas as estate planning, real estate, divorce, unlawful detainer, adoption, corporations, conservatorships and guardianships. |
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| ■ 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, and the importance of policies, procedures, and controls are discussed. | improve skills through further instruction and practice. BUSINESS: PARALEGAL PLGL 30 — Introduction to Paralegal/Legal 3 Units Degree Applicable, CSU 54 hours lecture Prerequisite:ENGL 68 Federal and state legal systems, the relationship of paralegals to attorneys, legal writing and research, investigation of claims, and legal ethics for paralegals. | ■ PLGL 35B — Automated Law Office Procedures 3 Units Degree Applicable 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. |
| BUSM 62 — Human Resource Management 3 Units 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. | PLGL 31A — Legal Analysis and Writing 3 Units Degree Applicable, CSU 54 hours lecture <i>Corequisite: PLGL 30 or BUSL 30 (may have been taken previously)</i> 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 36 — Paralegal Internship 1 Unit Degree Applicable (May be taken four times for credit) (May be taken for Pass/No Pass only) 75 hours lab Prerequisite: PLGL 31A, PLGL 33A, and PLGL 35A Corequisite: PLGL 31B, PLGL 33B, PLGL 35B, PLGL 37, PLGL 39 (may have been taken previously) |
| BUSM 66 — Small Business Management 3 Units Degree Applicable, CSU 54 hours lecture 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. | ■ PLGL 31B — Advanced Legal Analysis and Writing 3 Units Degree Applicable, CSU 54 hours lecture <i>Prerequisite: PLGL 30 and PLGL 31A</i> Preparation of research memoranda, trial briefs, appellate briefs and other paralegal documents. Continuation of PLGL 31A, Legal Analysis and Writing. | 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 skills through further instruction and practice. |
| 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 <i>Corequisite: BUSM 20 (may have been taken previously)</i> 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. | PLGL 33A — Civil Procedure Pretrial 3 Units Degree Applicable, CSU 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. PLGL 33B — Civil Procedure-Trial and Post-Trial 3 Units Degree Applicable, CSU 54 hours lecture <i>Prerequisite: PLGL 33A</i> Preparing for litigation. Includes discovery, preparation of law and motion documents, remedies, summary judgments, motions to dismiss, settlements, and arbitration. | 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. PLGL 38 — Employment and Ethical Issues 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) 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 39 — Contract Law 3 Units Degree Applicable, CSU 54 hours lecture Laws relating to the formation of contracts. Includes study of the 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 Degree Applicable, CSU 54 hours lecture 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 Examination of the law relating to real and personal property. Analysis 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 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. PLGL 43 — Wills and Trusts 3 Units Degree Applicable, CSU 54 hours lecture Legal principles of the laws of wills and trusts, organization and jurisdiction of the California Probate Courts, estate planning and estate taxes. PLGL 44 — Bankruptcy Law 3 Units Degree Applicable, CSU 54 hours lecture Creation, scope, and administrative function of federal bankruptcy proceedings. PLGL 45 — Creditors' Rights 3 Units Degree Applicable, CSU 54 hours lecture PLGL 45 — Creditors' Rights 3 Units Degree Applicable, CSU | Degree Applicable 54 hours lecture Overview of litigation procedures. Description of a trial and trial presentations are emphasized. Preparation of opening statements, direct and cross examinations, and closing statements. Elements of oral argument are examined. Methods of responding to questioning are analyzed. PIGL 47B — Litigation Practice 1.5 Units Degree Applicable 27 hours lecture Students will present a case and evaluate the effectiveness of their presentation. Continuous revision of opening arguments, closing arguments, direct examinations, and cross-examinations. PIGL 48 — Criminal Law and Procedures 3 Units Degree Applicable, CSU 54 hours lecture General principles of criminal law and procedure, elements of crimes 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. PIGL 49 — Evidence Law 3 Units Degree Applicable, CSU 54 hours lecture 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. PIGL 50 — Comparative Law 3 Units Degree Applicable S4 hours lecture 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 distinguish those systems from the U.S. system. Ethics, language, and management issues are considered with regard to doing business | BUSINESS: REAL ESTATE Image: BUSR 50 - Real Estate Principles 3 Unit: Degree Applicable, CSU 54 hours lecture Introductory real estate law, public control, property valuation, finance and real estate practice. Meets some of the California Real Estate 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. Image: BUSR 51 - Legal Aspects of Real Estate S4 hours lecture Prerequisite: BUSR 50 or employment in the real estate field 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. Image: BUSR 52 - Real Estate Practice Corequisite: BUSR 50 (may have been taken previously) or employment in the real estate field 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. Image: BUSR 52 - Real Estate Practice Work Experience 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 estate professional and a college instructor/cordinator. Designed to satisfy Department of Real Estate licensing requirements serving as a |
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| insolvency proceedings. PLGL 45 — Creditors' Rights Degree Applicable, CSU | management issues are considered with regard to doing business | satisfy Department of Real Estate licensing requirements serving as an equivalent to BUSR 52. Students who repeat this course will improve |

Section 10 135

| ■ BUSR 55 — Real Estate Economics 3 Units | BUSR 77 — Escrow Procedures II 3 Units | BUSINESS: SALES, MERCHANDISING, AND MARKETING |
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| 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. BUSR 57 — Income Tax Aspects of Real 3 Units | 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 Promotion 3 Units Degree Applicable, CSU 54 hours lecture Characteristics 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. |
| Estate Investments 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 81 — Appraisal: Priniciples and Procedures 3.5 Units 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 | BUSS 35 — Professional Selling 3 Units Degree Applicable, CSU 54 hours lecture <i>Prerequisite: Eligibility for ENGL 68</i> 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. |
| BUSR 59 — Real Estate Property Management 3 Units Degree Applicable 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 | salesperson license. BUSR 82 — Uniform Standards of Professional Appraisal Practice (USPAP) 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 | BUSS 36 — Principles of Marketing 3 Units Degree Applicable, CSU 54 hours lecture Prerequisite: Eligibility for ENGL 68 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. |
| Degree Applicable 54 hours lecture <i>Prerequisite: BUSR 50 or employment in the real estate field</i> 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 Degree Applicable | Appraisers (OREA). BUSR 83 — Residential Appraisal 3.5 Units 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 Comparison and Income Approaches. Required by Office of Real Estate | ■ BUSS 50 — 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. |
| 54 hours lecture Prerequisite: BUSR 50 or employment in the real estate field. 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. | 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 Degree 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 Prerequisite: BUSS 33 or BUSS 35 or BUSS 36 or BUSS 50 and compliance |
| ■ 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. | 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. | 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 Degree Applicable (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture Prerequisite: BUSS 33 or BUSS 35 or BUSS 36 or BUSS 50 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 | CHEMISTRY CHEM 10 — Chemistry for Allied Health Majors 4 Units Degree Applicable, CSU, UC 4 hours lecture 72 hours lab Prerequisite: Eligibility for MATH 71 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. CHEM 20 — Introductory Organic and Biochemistry 5 Units | CHEM 50H — General Chemistry I - Honors 5 Units Degree Applicable, CSU, UC 54 hours lecture 108 hours lab Prerequisite: Acceptance into the Honors Program. Also (CHEM 40 or satisfactory score on the Chemistry Placement Exam) and (MATH 71, 71B or 71X or equivalent) 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 |
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| CHMT 1 — Introduction to Chemical Laboratory Technology 3 Units Degree Applicable 36 hours lecture 34 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. CHMT 8 — Work Experience in Chemical Technology 1 to 2 Units Degree Applicable (May be taken four times for credit) (May be taken four times for credit)< | CHEM 20 — Introductory organic and biochemistry S Units Degree Applicable, CSU, UC 54 hours lab 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 40 — Introduction to General Chemistry 4 Units Degree Applicable, CSU, UC 54 hours lecture 72 hours lab Prerequisite: Eligibility for MATH 71 Advisory: Eligibility for ENGL 1A 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 50 — General Chemistry I 5 Units Degree Applicable, CSU, UC 54 hours lecture 108 hours lab Prerequisite: (CHEM 40 or satisfactory score on Chemistry Placement Examination) and (MATH 71, 71B or 71X or equivalent) 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. Int | 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. CHEM 51 — General Chemistry II 5 Units Degree Applicable, CSU, UC 54 hours lecture 108 hours lab <i>Prerequisite: CHEM 50 or CHEM 50H</i> The application of the laws, theories and principles presented in CHEM |

| ■ 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 and Practices in <u>Child Development Programs</u> 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 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 51 — Early Literacy in Child Development 3 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, reactions, reaction mechanisms, synthesis, separation, characterization and spectroscopic methods. Structure, synthesis and representative reactions of carbohydrates, lipids and proteins. | 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. CHLD 10 — Child Growth and Development 3 Units Degree Applicable, CSU, UC 54 hours lecture | Degree Applicable, CSU 54 hours lecture Advisory: CHLD 61 Examines 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 for Young Children Degree Applicable, CSU S4 hours lecture Applicable, CSU S4 hours lecture S4 hours lecture S5 hours lecture S5 hours lecture S6 hours lect |
| reactions of carbohydrates, lipids and proteins. CHEM 99 — Special Projects in Chemistry Degree Applicable, CSU (May be taken four times for credit) 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 class. Students repeating this course will make individual contracts of a more advanced nature to ensure that proficiencies are enhanced. CHILD DEVELOPMENT CHLD 1 — Child, Family, School and Community Sudits Degree Applicable, CSU, UC 54 hours lecture Prerequisite: Eligibility for ENGL 68 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. | Developmental 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 10H — Child Growth and Development - Honors 3 Units Degree Applicable, CSU, UC 54 hours lecture <i>Prerequisite: Acceptance into the Honors Program</i> Developmental 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. An honors course designed to provide an enriched experience for accelerated students. Students may not receive credit for both CHLD 10 and CHLD 10H. TB test required. | 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. CHLD 62 — Music and Motor Development for Young Children Degree Applicable, CSU 54 hours lecture Exploration of the role of music and movement in a young child's sensory motor development. Emphasizes student development in practical activities including making music, movement, singing and musical instruments. Out of class observation at a child development center required. TB test required. |

| CHLD 63 — Creative Sciencing and Math for Young Children Degree Applicable S4 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 67L — Early Childhood Development Participation Laboratory Degree Applicable, CSU 63 hours lab <i>Corequisite: CHLD 67</i> 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 71B — Management/Marketing/Personnel for 3 Units ECD Programs Degree Applicable 54 hours lecture <i>Prerequisite: CHLD 71A</i> Strategic planning for ECD programs, including financial administration, budgeting and marketing. Investigates basic financial/data management programs; examines personnel management practices designed to facilitate director/administrator/staff relationships; and |
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| CHLD 64 — Health, Safety and Nutrition of 3 Units 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 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. | explores staff development strategies and techniques employed in creative teaching methods. CHLD 72 — Teacher, Parent, and Child Relationships 3 Units Degree Applicable 54 hours lecture 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 dealing with issues that emerge when working with children and their families in the school setting. |
| CHLD 66 — Early Childhood Development Observation 2 Units Degree Applicable, CSU 36 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 69 — Early Childhood Development Field 2 Units Work Seminar Degree Applicable, CSU 36 hours lecture Prerequisite: CHLD 67, CHLD 67L Corequisite: 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 73 — Infant/Toddler Care and Development 3 Units Degree Applicable, CSU 54 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. |
| CHLD 66L — Early Childhood Development Observation Laboratory Degree Applicable, CSU 54 hours lab Corequisite: CHLD 66 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 67 — Early Childhood Development Participation 2 Units | 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 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. |
| Degree Applicable, CSU 36 hours lecture <i>Prerequisite: CHLD 6 and CHLD 66</i> <i>Corequisite: CHLD 67L</i> 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. | and staff policies are included. | CHLD 75 — Supervising Adults in Early 2 Units Childhood Settings Degree Applicable 36 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 81 — Current Curriculum Models in Child Development Degree Applicable (May be taken two times for credit) (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 (May be taken for option of letter grade or Pass/No Pass) | Degree Applicable, CSU | CHIN 4 — Continuing Intermediate Chinese 4 Units Degree Applicable, CSU, UC 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 GRAPHICS GRAP 8 — Fundamentals of Digital Media 3 Units Degree Applicable, CSU |
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| 18 hours lecture Investigates current issues in Child Development; explores process of advocacy on behalf of children. CHLD 83 — Current Issues in Child Development Degree Applicable (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) | ■ CHLD 92 — Family Child Care 3 Units Degree Applicable 54 hours lecture <i>Advisory: CHLD 1, 5, 6 and 10</i> 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. | 36 hours lecture 54 hours lab Introductory course for all disciplines interested in learning scientific concepts, terminology, and basic techniques used to produce digital media content. Includes software such as Adobe Photoshop, Apple iPhoto and iMovie, and computer and other electronic hardware techniques necessary to acquire, store, edit, transfer, or output digital media files. |
| 18 hours lecture Advisory: CHLD 5, CHLD 10 or CHLD 10H Provides students with a working knowledge of current research in child development and helps them apply that research to their programs and teaching. Issues covered will change with course offerings. Students who repeat this course will improve skills through further instruction and practice. CHLD 84 — Guidance and Discipline in Child Development Settings 1 Unit | CHINESE CHINESE CHIN 1 — Elementary Chinese 4 Units Degree Applicable, CSU, UC 72 hours lecture Intended for students without previous exposure to Chinese. Begins to develop the ability to converse, read, and write in Mandarin Chinese. | ■ GRAP 9 — Digital Color Management 3 Units Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture 54 hours lab Digital color management software and hardware skills, techniques and digital workflow practices commonly used with system color device calibration and Apple Aperture, iLife, and Adobe Creative Suite software. |
| Degree Applicable, CSU 18 hours lecture Advisory: CHLD 5 Problem solving approach to guidance and discipline of children in child development settings. Investigation of appropriate developmental and attitudinal aspects of producing a respectful environment between children, caregivers and parents. ■ CHLD 85 — Infants At Risk 3 Units Degree Applicable | culture. Culture. Culture. Culture. Culture. Culture Continuing Elementary Chinese Degree Applicable, CSU, UC Calculate Content Culture Curther develops conversational, reading, and writing skills in Mandarin Chinese with special emphasis on verbs, grammar, and extension of vocabulary. | ■ GRAP 10 — Photoshop Imagery 3 Units Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture 54 hours lab Adobe Photoshop software skills, techniques and digital workflow practices from digital image editing and retouching to the composited imagery commonly created for use in photography, commercial design, printing and publishing, the internet and multimedia authoring production. |
| 54 hours lecture <i>Prerequisite: CHLD 10</i> <i>Advisory: CHLD 73</i> Principles and methods of working with infants who are disabled or at- risk. Emphasis on prenatal prevention, postnatal intervention, and support programs. Course will prepare caregivers of infants at risk for appropriate program planning. TB test and out-of-class observations required. | ■ CHIN 3 — Intermediate Chinese 4 Units Degree Applicable, CSU, UC 72 hours lecture <i>Prerequisite: CHIN 2 or equivalent</i> 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. | GRAP 12 — Photoshop Imagery Extended 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 Adobe Photoshop Extended software skills and techniques for the creative photorealistic imagery commonly used in photography, commercial design, printing and publishing, the internet and multimedia authoring production. |

| ■ GRAP 15 — InDesign Graphics 3 Units Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture 54 hours lab Adobe InDesign software skills, techniques and digital workflow practices commonly created for use in essential computer graphics production processes for commercial design, printing and publishing, the Internet and multimedia authoring production. | ■ GRAP 30 — Digital Productions 3 Units Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture 54 hours lab Computer graphics production techniques and practices used in media creation and authoring professional projects commonly created for use in photography, commercial design, printing and publishing, the Internet and multimedia authoring production. | CISB 15 — Microcomputer Applications 4 Unit: Degree Applicable, CSU, UC 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. |
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| ■ GRAP 16 — Illustrator Graphics 3 Units Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture 54 hours lab Adobe Illustrator software skills, techniques and digital workflow from essential digital drawing basics to creatively conceived illustrative imagery and renderings commonly created for use in commercial design, printing and publishing, the internet, and multimedia authoring | GRAP 40 — Computer Graphics Special Topics 2 Units Degree Applicable (May be taken four times for credit) (May be taken for Pass/No Pass only) 18 hours lecture 54 hours lab Special topics expanding the essential knowledge, skills, production techniques and proficiency of Computer Graphics commonly created for self-expression, entertainment, commercial design, the Internet, and | CISB 16 — Macintosh Applications 2 Unit: Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 27 hours lecture 27 hours lab Formerly COMP 10. Apple's Macintosh computer, Mac OS X operating system, and related word processing, database, spreadsheet, and multimedia applications. CISB 21 — Microsoft Excel 4 Unit: |
| production. GRAP 18 — 3D Graphics Imagery 3 Units Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture 54 hours lab | multimedia production. COMPUTER INFORMATION SYSTEMS: AUXILIARY CISX 94 — Laboratory Studies in Computer Information Systems 1 to 3 Units Degree Applicable, CSU | Degree Applicabl 54 hours lecture 54 hours lab Spreadsheet concepts using Microsoft Excel including formatting, formulas and functions, charts, linked worksheets, pivot tables, macros, and Visual Basic for Applications (VBA) code. |
| 3D graphics modeling software skills and production techniques from 2D orthographic drawing to the creatively conceived 3D imagery and animated environments commonly created for self-expression, entertainment, commercial design, printing and publishing, the internet, and multimedia authoring production. GRAP 20 — Multimedia Graphics 3 Units Degree Applicable (May be taken for option of letter grade or Pass/No Pass) | (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 | CISB 31 — Microsoft Word 3 Unit Degree Applicabl (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture Formerly COMP 20. Using Microsoft Word and its editing, formatting, and language tools to create, revise and format various business and report documents. Includes creating flyers, newsletters, and other publication documents |
| 36 hours lecture 54 hours lab Multimedia graphics software skills and production techniques for combining text, image, audio, video, animation and scripting media to author multimedia projects commonly created for self-expression, entertainment, commercial design, the internet, and multimedia production. | Computer Information Systems. COMPUTER INFORMATION SYSTEMS: BEGINNING CISB 11 — Computer Information Systems 3.5 Units Degree Applicable, CSU, UC 54 hours lecture 27 hours lab | using advanced formatting techniques and tools. CISB 51 — Microsoft PowerPoint 3 Unit Degree Applicable, CSI 54 hours lecture Formerly COMP 50. Using PowerPoint to plan, design, and produce effective presentations. Includes creating charts, diagrams, and storyboards; developing |
| ■ GRAP 28 — Digital Portfolio 3 Units Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture 54 hours lab <i>Prerequisite: GRAP 12 and GRAP 20</i> 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. | Overview of computer information systems including computer hardware, software, networking, programming, databases, Internet, security, systems analysis, ethics, and problem solving using business applications. CISB 13 — Microsoft Windows 2 Units Degree Applicable, CSU 27 hours lecture 27 hours lab Hands-on instruction using Microsoft Windows Operating System to manage files, folders, and disks. Includes personalizing the Windows environment and browsing the web using Internet Explorer. | appropriate text content; adding sound, animation, and movies CISB 61 — Desktop Publishing Software 3 Unit: Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture Formerly COMP 60. Using desktop publishing software to integrate text and various graphic objects, design, edit, and produce a variety of high-quality business publications. |

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| COMPUTER INFORMATION SYSTEMS: DATABASE CISD 11 — Database Management - Microsoft Access 4 Units Degree Applicable, CSU 54 hours lecture 54 hours lab Advisory: COMP 12 or CISB 11 and CISB 15 Design, creation, and management of relational databases using Microsoft Access or similar Database Management Software (DBMS). Basic database design, creation of tables, queries, forms, reports, data access pages, and macros. Creation of custom graphical user interface using Switchboard Manager and Visual Basic (VB) code. Extensive bands on avancing on a Windows based PC | Degree Applicable 54 hours lecture Advisory: CISD 31 Design, creation and implementation of interactive Oracle single forms with multiple canvases, multiple forms and reports using Procedural Language/Structured Query Language (PL/SQL) triggers, the Object Navigator, and Form and Report Builder. Business reports and interactive forms are created using single and multiple tables. CISD 40 — Database Design 3 Units Degree Applicable, CSU | CISI 12 — Intermediate Computer Keyboarding 3 Units Degree Applicable S4 hours lecture Prerequisite: CISI 11 or CISI 11B (formerly COMP 1 or COMP 1B) Formerly COMP 2. Develops computer keyboarding speed and accuracy with a proficiency standard upon completion of 35-55 gross words a minute with a predetermined error limit. Uses word processing software, to format of letters, memos, reports, tables and other related business documents. CISI 21 — Data Entry 3 Units Degree Applicable |
| hands-on experience on a Windows-based PC. CISD 14 — Advanced Database Management - Microsoft Access Degree Applicable S4 hours lecture S4 hours lab Advisory: CISD 11 Advanced Microsoft Access programming techniques using Visual Basic for Applications (VBA) language; event-driven programming; Access Object Model, Data Access Objects (DAO) model, ActiveX Data Objects (ADO) model; VBA structures, arrays, error handling, multi-user applications, transaction processing, client-server; security issues. Extensive hands-on experience on a Windows-based PC. CISD 21 — Database Management - Microsoft SQL Server 4 Units Degree Applicable, CSU S4 hours lecture S4 hours lab Advisory: CISB 11 or CISB 15 Structured query language (SQL) and transact-SQL for Microsoft SQL Server users. Topics include creating database objects, retrieving and updating data, writing scripts, developing stored procedures/functions, and creating cursors. CISD 31 — Database Management - Oracle | 54 hours lecture Advisory: CISD 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. COMPUTER INFORMATION SYSTEMS: INFORMATION PROCESSI CISI 11 — Computer Keyboarding S Units Degree Applicable, CSU S4 hours lecture Formerly COMP 1. Develops alpha and numeric keyboarding skills on a personal computer at a straight-copy rate of 25 to 40 gross words a minute with a predetermined error limit. Includes keyboarding of letters, tables, and manuscripts. CISI 11A — Computer Keyboarding Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 27 hours lecture | 54 hours lecture Advisory: CISI 11 or CISI 11A Formerly COMP 18. Data entry using a microcomputer. Includes 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. CISI 41 — Office Management Skills 3 Units Degree Applicable 54 hours lecture Advisory: CISI 11 or CISI 11A Formerly COMP 28. Training and skill building in filing systems and procedures, proofreading, telephone techniques, faxing, emailing, and electronic calendaring of events, appointments and meetings. COMPUTER INFORMATION SYSTEMS: MANAGEMENT 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 relutions and the diricipling of custome analysis in relation to the |
| ECSD 31 — Database Management - Oracle Degree Applicable, CSU Degree Applicable, CSU 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. | Formerly COMP 1A. Develops basic alpha and numeric keyboarding with skills on a personal computer at a straight-copy rate of 25 to 30 gross words a minute with a predetermined error limit. CISI 11B — Computer Keyboarding 1.5 Units Degree Applicable, CSU 27 hours lecture <i>Advisory: CISI 11A (formerly COMP 1A) or ability to type 20 wam with</i> <i>test verification at first class meeting</i> Formerly COMP 1B. Develops straight-copy keyboarding rate of 25-40 gross words a minute with an error limit; includes letters, tables, and reports. | 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. |

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| CISP 34 — Advanced C++ Programming 4 Units Degree Applicable, CSU, UC 54 hours lecture 54 hours lab Advisory: CISP 31 Advanced object-oriented programming concepts and principles of object-oriented design in C++. Data structures: vectors, linked lists, queues, stacks and hash tables. Programs with graphical-user interface. Access to a database. Web services. CISP 41 — Programming in C# 4 Units Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture 54 hours lab Advisory: CISB 11 or CISB 15 Plan, develop and debug C# applications using Windows Forms and Web Forms. Course covers loops, if statements, switch blocks, database | COMPUTER INFORMATION SYSTEMS: SECURITY Image: Clss 11 — Practical Computer Security 2 Units Degree Applicable 27 hours lecture 27 hours lab Advisory: ClSB 11 Introductory course in computer security. Provides awareness for all computer users to protect user accounts and computer systems from attacks. Projects illustrate security software and hardware configuration. Image: Clss 13 — Principles of Information Systems Security 4 Units Degree Applicable 54 hours lecture 54 hours lab Advisory: ClSB 11 Information systems security preparation for the Certified Information Systems Security Professional (ClSSP). Includes legal, business, and | CISS 25 — Network Security and Firewalls Degree Applicable, CSU Degree Applicable, CSU Degree Applicable, CSU Degree Applicable, CSU Design secure networks by implementing and configuring firewalls, DMZ, and VPNs for enterprise, medium, and small businesses. Includes designing, installing, configuring, maintaining, troubleshooting, and monitoring firewall solutions by Cisco and other leading firewall manufacturers. CISS 27 — Defending Computer Systems 1 Unit Degree Applicable (May be taken four times for credit) 54 hours lab Team-oriented practice installing and setting-up security in computer and network systems. Includes hands-on activities defending, responding, mitigating, and analyzing security attacks along with preparing written reports documenting how the system was defended. |
| connections, multiple forms, object-oriented programming concepts. Course taught in hands-on environment and requires projects implementing each concept. CISP 44 — Advanced Programming in C# 4 Units Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture 54 hours lab Prerequisite: CISP 41 or industry experience in C# Advanced programming concepts using C#. Designing, coding, testing and implementing object-oriented multi-tier applications; displaying, searching, and updating SQL client databases with both Windows Forms and Web Forms; creating user controls, Web Services, and container classes; creating help files, deploying applications, and developing mobile applications. CISP 51 — Principles of Object-Oriented Design 2 Units Degree Applicable 27 hours lecture 27 hours lecture 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. | ethical topics. CISS 15 — Operating Systems Security CISS 15 — Operating Systems Security CISS 15 — Operating Systems Security CISS 11, CISN 21 Advanced aspects of operating systems security from how attackers operate to how viruses strike. Covers strengthening operating systems and repelling attacks, and applying security concepts and techniques to different operating systems (Windows, Unix etc.) CISS 21 — Network Vulnerabilities and Countermeasures 4 Units Degree Applicable, CSU S4 hours lecture S4 hours lab Network vulnerabilities from a hacker's perspective and ethical and legal issues associated with computer network attacks. Includes written security, use, and instance response policies, scanning and penetration tests, vulnerability assessments and countermeasures for Windows and Linux operating systems, secured programming, Virtual Private Network (VPN), cryptography, wireless, Web, and remote access securities. Also includes GIAC Certified Incident Handler certification preparation. CISS 23 — Network Analysis, Lutrusion Detection/Prevention Systems Degree Applicable, CSU S4 hours lecture S4 hours lab CNASM (Computer Network Administration and Security Management) A5 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 troubleshoot network problems. | Image: Construct and the second state of the second sta |

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| CISW 15 — Web Site Development 4 Units Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 54 hours lab Advisory: CISB 13 or (CISB 15 or COMP 12) or CISB 16 (formerly COMP 10) Formerly COMP 13. Use of a professional visual Web-authoring application to plan, develop, implement, publish and maintain Web sites. Includes working with text and images, internal and external hyperlinks, image maps, tables, Cascading Style sheets, Web page content, Web forms, multimedia objects (Flash text, Flash buttons, sounds, and video), interactions and behaviors, and Web page templates. Principles of Web site structures, documentation, management, and maintenance will be discussed. CISW 21 — Secure Web Programming with ASP.NET 4 Units Degree Applicable, CSU 4 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 4 Units Degree Applicable 54 hours lab Advisory: CISW 11 Secure web programming by creating user interfaces, extracting information and managing databases, managing files, report formatting, and accessing web servers by using PERL, Python, Ruby or any Web scripting or programming language. CISW 31 — Secure Web Servers 4 Hours lab Advisory: CISN 34 or CISW 24 Plan, install and manage secure Web servers like Apache using server side programming language like PHP, Python or Ruby to access, manage and secure databases. Course topics include Web server security using | Degree Applicable 54 hours lecture Advisory: CISW 21 Principles, components and benefits of the Extensible Markup Language (XML), including concepts of XPointers, XLink, and XSLT. Apply secure XML programming using DOM and SAX and standards such as canonicalization, signatures and encryption. I CISW 49 — Service Oriented Architecture Concepts 3 Units and Practice Degree Applicable 54 hours lecture Advisory: CISW 41 Fundamentals, definitions, standards and case studies of Service Oriented Architecture (SOA) including design elements and design principles, and concepts and examples of service-oriented computing and the principle of service-orientation. COMPUTER SCIENCE I 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> Advisory: Eligibility for ENGL 1A 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.) I CSCI 140 — C++ Language and Object Development 4 Units Degree Applicable, CSU, UC 54 hours lecture 54 hours lab <i>Prerequisite: CSCI 110 or equivalent programming experience</i> For computer science, mathematics, engineering and other science students. Introduction to C++ programming and object-oriented paradigm. Control structures, functions, arrays, pointers and strings, classes and data abstraction, C++ object programming, operator overloading, inheritance, virtual functions and polymorphism, stream input and output, templates, exception handling, file processing. | CSCI 145 — Java Language and Object Oriented Programming Degree Applicable, CSU, UC 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. CSCI 150 — Assembly Language/Machine Architecture Prerequisite: CSCI 150L 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 4 Mours 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 of assembly language programs. CSCI 170 — Introduction to Unix Operating System 27 hours lab Prerequisite: Completion of CSCI 110 Introduction to the UNIX operating system, system administration and |
| formatting, and accessing web servers by using PERL, Python, Ruby or any Web scripting or programming language. CISW 31 — Secure Web Servers 4 Units Degree Applicable 54 hours lecture 54 hours lab Advisory: CISN 34 or CISW 24 Plan, install and manage secure Web servers like Apache using server side programming language like PHP, Python or Ruby to access, manage | Degree Applicable, CSU, UC 54 hours lecture 54 hours lab <i>Prerequisite: CSCI 110 or equivalent programming experience</i> For computer science, mathematics, engineering and other science students. Introduction to C++ programming and object-oriented paradigm. Control structures, functions, arrays, pointers and strings, classes and data abstraction, C++ object programming, operator overloading, inheritance, virtual functions and polymorphism, stream | scientific algorithms and data structures in C++ or Java strongly recommended Complements the lecture material in CSCI 150. Development/debugging of assembly language programs. CSCI 170 — Introduction to Unix Operating System Degree Applicable, CSU, UC 54 hours lecture 27 hours lab Prerequisite: Completion of CSCI 110 |
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Section 10 145

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| 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 230L — Data Structures II Laboratory 1 Unit Degree Applicable, CSU, UC (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 TECHNOLOGY | CNET 58 — Server Systems 3 Units Degree Applicable 36 hours lecture 54 hours lab Advisory: CNET 56 Server installation, configuration, and management. Includes hardware and software components, virtual server configurations, troubleshooting techniques using flow charts and diagnostic tools, and disaster recovery concepts. Emphasis on hardware components. Covers the core material needed for the Server+ Certification. |
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| CSCI 210 — Applied Logic for Computers 3 Units Degree Applicable, CSU, UC 54 hours lecture Prerequisite: CSCI 110 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. CSCI 220 — Data Structures I 3 Units Degree Applicable, CSU, UC | CNET 50 — PC Servicing 4 Units Degree Applicable 54 hours lecture 54 hours lab <i>Advisory: ELEC 50B taken prior or concurrently</i> PC and peripheral servicing techniques, preventative maintenance, hardware configurations, software confirgurations, software diagnostics, and the use of test equipment. | CNET 60 — A+ Certification Preparation CNET 60 — A+ Certification Preparation CNET 60 — A+ Certification Preparation CNET 54 Prepares the student and qualified computer technician for the A+ certification examination. All aspects of the A+ Essentials and A+ Practical Application test modules will be stressed through both lecture review and test simulation software. |
| 54 hours lecture <i>Prerequisite: CSCI 140 or CSCI 145</i> <i>Corequisite: CSCI 220L</i> 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. | ■ CNET 52 — PC Operating Systems 4 Units 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 62 — Network+ Certification Preparation 2 Units Degree Applicable 36 hours lecture <i>Advisory: CNET 56</i> 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 220L — Data Structures I Laboratory 1 Unit 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 | CNET 54 — PC Troubleshooting 4 Units Degree Applicable 54 hours lecture 54 hours lab Advisory: CNET 50 taken prior Advanced microcomputer servicing. Includes: isolating, identifying, and repairing specific problems in the computer environment at the | CNET 64 — Server + Certification Preparation 2 Units Degree Applicable 36 hours lecture <i>Advisory: CNET 58</i> Prepares the computer/network service technician for the CompTIA Server+ certification examination. |
| Work will include problem solving in linear data structures, strings, and trees. 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. | Advisory: CNET 54 taken prior 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. | CNET 66 — Security + Certification Preparation 2 Units Degree Applicable 36 hours lecture Advisory: CNET 54 and CNET 56 taken prior 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. 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 processes. |

| CORS 15 — Control and Supervision of the Offender 3 Units | COUNSELING | COUN 51 — Career Planning 1 Unit |
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| Examine methods of controlling and supervision of the orienteer Source 54 hours lecture Examine methods of controlling and supervising inmates. Emphasizes California's methods in rapidly-expanding institutions. Image: Correctional Law Image: Correctional Law Source 54 hours lecture Degree Applicable | 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 orientation to college life and higher education resources. Explores graduation, transfer, and career options, factors in educational decision | 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. |
| Legal and due process rights for inmates. Inmate rights vs. needs of society. State, federal, and appellate court decisions. CORS 25 — Probation and Parole 3 Units Degree Applicable 54 hours lecture | making. COUN 2 — College Success Strategies 3 Units Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture | COUN 54 — Single Parent Academy 3 Units Degree Applicable 54 hours lecture Develop personal, educational, and career/life planning skills for single parents. |
| 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 30 — Ethnic Relations in Corrections 3 Units | 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 .5 to 2 Units Degree Applicable, CSU (May be taken four times for credit) 47 to 119 hours lab In order to offer selected students recognition for their academic interacts and ability and the expectuality to explore their disciplines to |
| 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. | ■ 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 identify barriers to success. Explores careers and job search techniques. | interests and ability and the opportunity to explore their disciplines to greater depth, various departments from time to time offer Special Projects courses. This course will focus on establishing career and educational goals for students. 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 ensure that proficiencies are enhanced. A field trip may be required. |
| 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. | COUN 7 — Introduction to the Transfer Process 2 Units Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture Advisory: ENGL 68 | DANCE: ACTIVITY DNCE 1 — Ballet Fundamentals .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) |
| CORS 40 — Crime and Delinquency 3 Units Degree Applicable 54 hours lecture 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. | 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. | 36 to 108 hours lab 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. |
| CORS 45 — The Violent Offender 3 Units Degree Applicable 54 hours lecture Violent crimes of felony assault, robbery, rape, the various types of homicide, and the characteristics of both the offender and the victim. | 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. | 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 lab 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 lab 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 four times for credit) | DNCE 12A — Modern I | 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 lab 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 |
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| (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours lab 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. | (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours lab Intermediate technique and movement combinations for modern dance. Students who repeat this course will improve skills through further instruction and practice. DNCE 13 — Modern Performance .5 to 2 Units | (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours lab 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 4 — Choreography S 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 lab Prerequisite: DNCE 12A or DNCE 12B or DNCE 13 Designed for the experienced dancer to learn the techniques of choreography. Presents basic choreographic forms and compositional | 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 lab Introduces the experienced modern dance student to an overview of modern dance styles and choreography elements, enabling them to choreograph and perform. Students who repeat this course will improve proficiency through continued instruction and practice. | DNCE 18A — Tap I S to 1 Unit Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours lab Presents basic technique, rhythms and routines for tap dance. Students who repeat this course will improve skills through further instruction and practice. DNCE 18B — Tap II .5 to 1 Unit |
| design. Students who repeat this course will improve technical and compositional skills through further practice and instruction. DNCE 11A — Social Dance Forms 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 lab Designed to teach basic social dance techniques. Focus on fundamentals of music, dance positions, dance formations and choreography to be used in the study of, but not limited to Swing, Salsa, Waltz, Foxtrot and Tango. 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 lab Basic vocabulary, technique, movement combinations and routines for jazz dance. Students who repeat this course will improve skills through further instruction and practice. 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) | Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours lab Intermediate technique, rhythms and routines for tap dance. Students who repeat this course will improve skills through further instruction and practice. 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) |
| DNCE 11B — Social Dance Forms II Sto 1 Unit Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours lab 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 | 36 to 54 hours lab Intermediate technique, movement combinations and routines for jazz dance. Students who repeat this course will improve skills through further instruction and practice. | 36 to 54 hours lab 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 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 lab 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 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 54 hours lab 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 | 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 lab 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 |
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| 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 lab Designed for the experienced dancer to apply previously learned choreographic skill, to conduct stage rehearsals and learn costuming techniques. 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 lab Provides the intermediate to advanced jazz dancer the opportunity to experience the different techniques of leading commercial dancers, teachers and choreographers. Students who repeat this course will improve skills through further instruction and practice. | 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 (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours lab <i>Advisory: DNCE 39A</i> |
| 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 lab 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. | ■ 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 lab 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. | 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 lab 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 30 — Contemporary Dance .5 to 1 Unit | DNCE 34 — Dance Directives S 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 lab Prerequisite: Admission by audition 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 lab 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. DANCE: THEORY DN-T 18 — Introduction to Dance 3 Units |
| Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours lab 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. | Image: Continued instruction and practice. Image: Continued instruction and practice. | Degree Applicable, CSU, UC 54 hours lecture <i>Advisory: Eligibility for ENGL 68</i> A survey of the profession of dance and its various art forms through lecture, discussion, demonstration, and participation. Includes multi- cultural dance interpretations. |

| Degree Applicable, CSU, UC54 hours lectureAdvisory: Eligibility for ENGL 68Survey of dance in western civilization. History of dance in chronological sequence emphasizing the cultural background and historical development of various forms and styles of dance to include discussion of the influence of dance on other art forms.18 hours lecture 36 hours lectureImage: DN-T 27 — Theory and Principles of Pilates3 Units Degree Applicable18 hours lecture 36 hours lecture54 hours lecture Prerequisite: DNCE 39A Teaching skills for the pilates method of physical and mental apparatus repertoire.3 Units Degree Applicable18 hours lecture 36 hours lecture Functional Anatomy for Pilates2 Units Degree Applicable36 hours lecture Functional human anatomy as applied to the Pilates method of2 Units Degree Applicable18 hours lecture 36 hours lecture | Introduces students with disabilities to college, including campus resources and college. Topics include self-advocacy, college resources, s management, educational accommodations, effective learning methor is is ab isite: DN-T 30 and DN-T 32 g to teach Pilates exercises on the following apparatus: Ped-a-der Barrel, Step Barrel, Arc Barrel, Magic Circle, C-cushion and Humits a conversed with a focus on the development of selecture s conversed with a focus on the development of solutions and advision to college. Topics include self-advocacy, college resources, s management, educational accommodations, effective learning methor and goal setting. DSPS 12 — Career Exploration and Planning for 3 U Students with Disabilities Not Degree Application and Planning for 3 U Students with Disabilities |
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| Degree Applicable 18 hours lecture 36 hours lab <i>Corequisite: DN-T 27 (may have been taken previously)</i> Learning to teach the Pilates mat exercises and principles. Includes basic, intermediate and advanced levels focusing on pedagogy and the development of correct neuromuscular patterning. DN-T 30 — Teaching Pilates Reformer Repertoire 1.5 Units Degree Applicable 18 hours lecture 36 hours lab <i>Prerequisite: DN-T 29</i> Learning to teach the Pilates Reformer exercises and principles. All levels are covered with a focus on the development of correct neuromuscular patterning. DN-T 31 Pilates Teaching Mat and Reference 3 Units and injury presented and presented and presented and presented and p | uscular patterning. I during for the Pilates Teaching-Cadillac, Wunda Chair and Auxiliary Equipment 3 Units and Auxiliary Equipment I 34 — Pilates Teaching-Cadillac, Wunda Chair and Auxiliary Equipment 3 Units bits students with a systematic approach to self-exploration, occupational research and career decision-making. Students will iden interests, personality style, and skills. Educational and functional limitations, as well as reasonable accommodations will be explored. Designed for students with disabilities. Is lecture sing of the Pilates s and concepts. Includes lecture, observation, self-integration, t teaching and one-on-one teaching. Off-campus observations required. I DSPS 15 — Personalized Career Exploration for students with Disabilities I May be taken four times for credit) If 38 — Dance Teaching Methods s lab ite: DNCE 2B or DNCE 12B or DNCE 14B lication of pedagogical methods in Dance. Explores teaching es, imagery, motivational techniques, music for class instruction, ruy prevention. Focus is on the genres of Ballet, Jazz and Modern Course will involve on- and off- campus dance teaching I DSPS 16 — Educational and Career Options for students with Disabilities May be taken four times for credit) Not Degree Applicable I more students with Disabilities Isolation of pedagogical methods in Dance. Explores teaching es, imagery, motivational techniques, music for class instruction, ruy prevention. Focus is on the genres of Ballet, Jazz and Modern Course will involve on- and off- campus dance teaching I May be taken four times for credit) (May be taken four times for credit) May be taken four times for credit) |

| DSPS 20 — Improving Spelling and Reading of Words 3 Units Not Degree Applicable (May be taken for Tass/No Pass only) 54 hours lecture Improve reading and spelling skills for multi-syllabic words. Includes sounding out letters, oral movements, and common "rules" for reading and spelling words. Designed for studens with learning disabilities. Students who repeat this course will improve skills through further instruction and practice. DSPS 30 — Academic Success Strategies for Students with Disabilities Not Degree Applicable (May be taken for Pass/No Pass only) 54 hours lab Advisory: Concurrent enrollment in ENGL 67 or above, or MATH 50 to MATH 130 Strategies for academic success in relationship to disabilities. Primary emphasis will be on the effects of and strategies for auditory processing, language expression, memory, fluid reasoning and performance speed. Secondary emphasis will be on strategies to improve skills through further instruction and practice. DSPS 31 — Memory Strategies for Students who repeat this course with Disabilities Not Degree Applicable (May be taken four times for credit) (May be taken for Pass/No Pass only) S4 hours lab Advisory: Eligibility for READ 80. Student should have at least one other academic class for application of strategies. Principles of 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. | Learning Disabilities Not Degree Applicable (May be taken four times for credit) (May be taken for Pass/No Pass only) 54 hours lecture Advisory: Eligibility for ENGL 67 or AMLA 42W and READ 80 or AMLA 32R. Concurrent enrollment in an academic class that requires reading and writing. Students with Learning Disabilities can improve their reading comprehension and written expression as applied to assignments in academic classes through the use of technology. A variety of strategies using technology will be introduced to students that will aid them in understanding and learning reading assignments and in expressing their ideas in written assignments. They will select several strategies for more in-depth use and will apply them functionally in academic classes. Concurrent enrollment in an academic class that requires reading and writing is advised. D SPS 33 — Strategies for Success in Math for Students with Disabilities 3 Units May be taken for Pass/No Pass only) 54 hours lecture Advisory: Concurrent enrollment in MATH 50 to MATH 130 Strategies for students currently in math courses for academic success in relationship to disabilities. Emphasis on effects of and strategies for processing, language expression, memory, reasoning, and processing speed as they relate to math. Students who repeat this course will improve skills through further instruction and practice. D SPS 34 — Writing Strategies for Students with Disabilities 3 Units May be taken for Pass/No Pass only) 54 hours lecture Strategies are applied to their English writing assignments by supporting the stu | EDUC 16 — Aspects and Issues in Teaching Degree Applicable, CSU, UC 54 hours lecture Advisory: Eligibility for ENGL 68 Survey of the teaching profession, providing students opportunities to explore aspects of the career, including teaching and learning styles, state content standards and testing, recent California and national legislation, social issues, school funding and teacher rights and responsibilities. ELECTRONICS ELEC 10 — Introduction to Mechatronics 2 Units Not Degree Applicable 18 hours lecture 54 hours lab 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. ELEC 11 — Technical Applications in Microcomputers 3 Units Degree Applicable, CSU 36 hours lecture 54 hours lab Go hours lecture 54 hours lab Bus 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 Nours lecture 54 hours lab Bours lecture 54 hours lab Bours lecture 54 hours lab Bours lecture 54 hours lab Geree Applicable, CSU 20 (Strong), Special emphasis on probation 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 and their applications. Covers DC sources, analysis, test equipment, measurements, and troubleshooting of resistive devices and other basic components. Includes hom's Law, Kirchhoff's law, and network theorems. (Students seeking a survey course in electronics should take ELEC 10, |
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| | and educational specialization. Course includes guidance in the selection of a future area of specialization. K-12 classroom observations required. | |

| 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 | ELEC 55 — Microwave Communications 4 Units Degree Applicable 54 hours lecture 54 hours lab Advisory: ELEC 53 taken prior Microwave components and circuits and their applications with | ELEC 66 — Electrical Code-Residential 3 Units Not Degree Applicable 54 hours lecture <i>Advisory: ELEC 54B taken prior</i> Introduction to the National Electrical Code requirements for residential wiring. Includes interpretation and review of electrical wiring diagrams, |
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| AC sources, analysis (using complex numbers), test equipment, measurements, and troubleshooting of basic circuits with capacitors, inductors, and resistors. Includes impedance, resonance, filters, and decibels. | 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. | matterial use, installation methods, and calculation of electrical wining 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. ELEC 74 — Microcontroller Systems 4 Units |
| 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 | ELEC 56 — Digital Electronics 4 Units Degree Applicable, CSU 54 hours lecture 54 hours lab 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. | ELEC 74 — Microcontroller Systems 4 Units Degree Applicable, CSU 54 hours lecture 54 hours lab Advisory: ELEC 56 taken prior Microcontroller systems and programming methods; programmable logic devices (PLDs); serial communications; conversion of signals from analog to digital formats and the converse. Industry applications, interfacing, and troubleshooting. |
| lines, characteristics curves, gain, troubleshooting, measurements, and frequency response. ELEC 53 — Communications Circuits 4 Units Degree Applicable 54 hours lecture 54 hours lab | Degree Applicable, CSU 36 hours lecture 54 hours lab Assembly and fabrication techniques in basic soldering, de-soldering, and surface mount technology (SMT). Construction of coaxial, twisted | ELEC 76 — Radio Telephone Communications 3 Units Not Degree Applicable 54 hours lecture Prepares qualified electronic technicians for the FCC and/or NARTE commercial licenses for technicians and engineers in the communications field. |
| Advisory: ELEC 51 taken prior Analog and digital communications circuits. Emphasizes analog and digital modulation principles, fiber optics, multiplexing, and telecommunications circuits. | pair (Ethernet) cabling and connectors. Includes printed circuit board (PCB) layout and design. ELEC 62 — Advanced Surface Mount Assembly and Rework 2 Units | ELEC 81 — Laboratory Studies in Electronics 1 to 2 Units Technology Degree Applicable (May be taken four times for credit) |
| ELEC 54A — Industrial Electronics 4 Units Degree Applicable, CSU 54 hours lab Advisory: ELEC 51 taken prior | Degree Applicable (May be taken two times for credit) 18 hours lecture 54 hours lab <i>Advisory: ELEC 61</i> Advanced course in assembly and repair (soldering) on surface mount | 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. |
| 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 54B — Industrial Electronic Systems Degree Applicable, CSU | assemblies. Prepares for the IPC surface mount assembly and rework certifications. ELEC 63 — Electronic Assemblies Recertification 9 hours lecture | ■ ELEC 91 — Work Experience in Electronics 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 |
| 36 hours lecture 54 hours lab <i>Advisory: ELEC 54A taken prior</i> Expands 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). | 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.) | 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 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 64 — Electronic Troubleshooting - II 4 Units | EMS 30 — Pharmacology for Paramedics 2 Units |
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| EST 50 — Electrical Fundamentals for Cable Installations 4 Units Degree Applicable 54 hours lecture 54 hours lab 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 | Degree Applicable 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). EST 70 — C-7 Low Voltage Systems License Preparation 2 Units Degree Applicable | Degree Applicabl 39 hours lecture 13 hours lab <i>Prerequisite: Admission to the Paramedic Program</i> <i>Corequisite: EMS 10, EMS 20, EMS 40, EMS 50, and EMS 60</i> Commonly used paramedic drugs, with emphasis on dosages supplied and ordered, routes of administration, expected therapeutic outcomes and possible adverse reactions. |
| systems license. EST 52 — Fabrication Techniques for Cable Installation 4 Units Degree Applicable 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. Emphasis on hand and power tools, construction methods | 36 hours lecture Advisory: EST 56 or ECWT 56 taken prior Prepares for the California State Contractors C-7 Low Voltage Systems license examination. Students who repeat this course will improve skills through further instruction and practice. EMERGENCY MEDICAL SERVICE EMS 1 — Fundamentals for Paramedics 4 Units | EMS 40 — Cardiology for Paramedics 5 Unit Degree Applicabl 91 hours lecture <i>Prerequisite: Admission to the Paramedic Program</i> <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. |
| and materials as they apply to cable and wire installations. Prepares students for the California State Contractors C-7 low voltage systems license. EST 54 — Cabling and Wiring Standards 4 Units Degree Applicable 54 hours lecture 54 hours lab Advisory: EST 50, EST 52 | Degree Applicable 72 hours lecture <i>Prerequisite: Completed Paramedic Program application, current California</i> <i>EMT I (Basic) certificate, and six months employment as an EMT I</i> <i>Advisory: Eligibility for ENGL 68</i> 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 | EMS 50 — Paramedic Skills Competency 5 Unit Degree Applicable 54 hours lecture 108 hours lab <i>Prerequisite: Admission to the Paramedic Program</i> <i>Corequisite: EMS 10, EMs 20, EMS 30, EMS 40, and EMS 60</i> Perfect the paramedic skills required for field operation as a paramedic and for certification in competency-based exams. |
| 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. EST 56 — Home Theater, Home Integration and 4 Units | Paramedic Program. EMS 10 — Anatomy and Physiology for Paramedics 2 Units Degree Applicable 39 hours lecture <i>Prerequisite: Admission to Paramedic Program and EMS 1</i> <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 | EMS 60 — EMS Theory for Paramedics Begree Applicable Degree Applicable 156 hours lecture 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 Fille create the application |
| Home Security Systems Degree Applicable 54 hours lecture | paramedic practices. EMS 20 — Emergency Cardiac Care for Paramedics 1 Unit | skills, care of the sick and injured at a paramedic level, with applications to anatomy and physiology, pathologic processes, and mechanism of injury. |
| 54 hours lab Advisory: EST 54 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. | 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). | EMS 70 — Paramedic Clinical Internship 4 Unit: Degree Applicable (May be taken for Pass/No Pass only) 215 hours lab Prerequisite: EMS 1 Corequisite: EMS 60 (May have been taken previously.) Clinical experience and application of paramedic theory and practice |
| EST 62 — Electronic Troubleshooting-I 4 Units Degree Applicable 54 hours lecture 54 hours lab <i>Advisory: EST 56</i> 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). | | with an emphasis on patient assessment and utilization of paramedic skills in a hospital setting. |

| EMS 80 — Paramedic Field Externship 9.5 Units Degree Applicable | ENGR 8 — Properties of Materials 4 Units Degree Applicable, CSU, UC | ENGR 41 — Dynamics 3 Units Degree Applicable, CSU, UC |
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| (May be taken for Pass/No Pass only) 479 hours lab Prerequisite: EMS 1 and Successful completion of Los Angeles County accreditation exam 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. | (May be taken for option of letter grade or Pass/No Pass) 72 hours lecture <i>Prerequisite: CHEM 40 or 50 and PHYS 4A or 2AG</i> Mechanical, electrical, magnetic, optical and thermal properties of engineering materials and their relation to the materials' internal structure. Atomic structure and bonding; crystalline structures; phase and phase diagrams; metals; polymers; ceramics; composites; mechanical deformation and fracture; structural control and influence of | 54 hours lecture 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. |
| EMERGENCY MEDICAL TECHNICIAN | properties; materials naming and designating systems; corrosion process; lasers; semiconductors; electronic packaging materials. | ENGR 42 — Mechanics of Materials 4 Units Degree Applicable, CSU, UC 72 hours lecture |
| ■ EMT 90 — Emergency Medical Technican I 10.5 Units Degree Applicable 135 hours lecture 135 hours lab Prerequisite: High school graduation or equivalent and minimum of 18 years of age Approved by the L.A. County and State Departments of Health. | ■ ENGR 18 — Introduction to Engineering Graphics 3 Units Degree Applicable, CSU (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 | Prerequisite: ENGR 40Mechanics of deformable bodies subjected to axial, torsional, shearing, and bending loads. Includes combined stresses, statically indeterminate structures, deflection and stress analysis of beams, stability of columns, strain energy methods, and design of pressure vessels and structures.■ ENGR 44 — Electrical Engineering4 Units |
| 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. | The solution of problems. Orthographic, isometric and oblique drawings. ENGR 24 — Engineering Graphics 4 Units Degree Applicable, CSU, UC 36 hours lecture 108 hours lab | Degree Applicable, CSU, UC 54 hours lecture 54 hours lab <i>Prerequisite: PHYS 4B</i> Introduction to electrical circuit analysis; systems of units; applications of Kirchoff's Laws and Thevenin's Theorems to D-C and A-C circuits. |
| ■ EMT 91 — Emergency Medical Technician I Refresher 2 Units Degree Applicable 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 | Prerequisite: ENGR 18 and eligibility for MATH 51 Advisory: CISB 15 Graphical expression through Computer Assisted Drafting (CAD). Includes freehand sketching and instrument drawing, orthographic, isometric and oblique drawing with dimensioning and tolerancing. | 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. |
| EMT-I 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 | Fasteners, cams, gears, and pipe drawings. Descriptive geometry: points, lines, and planes. Intersections and developments of solids, sheet metal, electrical and civil engineering, and surveying drawings. | ■ ENGR 99 — Special Projects in Engineering 1 to 2 Units Not Degree Applicable (May be taken four times for credit) 18 to 36 hours lecture Correquirite: DHVS 1 or DHVS 24C or DHVS 44 (May have been taken |
| order to maintain eligibility for employment in an emergency response 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 (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. | ■ ENGR 40 — Statics 3 Units Degree Applicable, CSU, UC 54 hours lecture <i>Prerequisite: PHYS 4A</i> Static 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. Friction, moment of inertia, distributed and concentrated loads. Forces in cables and beams. Fluid statics. Introduction to virtual work. Vector approach. | <i>Corequisite: PHYS 1 or PHYS 2AG or PHYS 4A (May have been taken 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 meet with the instructor and make individual contracts of a more advanced nature to ensure that proficiencies are enhanced. |
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| ENGL 1BH — English - Introduction to Literary Types 3 Units 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 foundation for personal, cultural, and intellectual growth. An honors course designed to provide an enriched experience. May not receive credit for both ENGL 1B and ENGL 1BH. ENGL 1C — Critical Thinking and Writing 4 Units Degree Applicable, CSU, UC 72 hours lecture Prerequisite: ENGL 1A or ENGL 1AH Develops critical thinking, reading, and writing skills. Focuses on logical analysis and argumentative writing. 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. Focuses on 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 8A — Creative Writing - Fiction 3 Units Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture Prerequisite: ENGL 1A or ENGL 1AH 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, description, and dialogue with an emphasis on student development as a writer of fiction through practice and discussion. ENGL 8B — Creative Writing - Poetry 3 Units Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture Prerequisite: ENGL 1A or ENGL 1AH Elements, processes, and techniques of fiction writing. Includes genre, settings, point of view, character sketch, plot development, description, and dialogue with an empha | ENGL 8C — Creative Writing - Novel 3 Units Degree Applicable, CSU, UC (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 Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture Prerequisite: ENGL 8B Elements, processes, and techniques for creating and writing poetry collections. Includes theme, imagery, line breaks, diction, and prosody, with an emphasis on student development as a creator of poetry collections through practice, writing - Memoir 3 Units Degree Applicable, CSU, UC (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, UC (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, UC (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture Prerequisite: ENGL 1A Analysis and writing of creative nonfiction including stylistic and syntactic forms and composition strategies used when writing creative nonfiction. ENGL 8G — Creative Writing-Memoir Collection 3 Units Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture Prerequisite: ENGL 8E Development of memoir writing with emphasis on developing a memoir collection. Includes setting, character development, dialogue, theme, voi | ENGL 81 — Creative Writing - Nonfiction Collections 3 Units Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture Prerequisite: ENGL 8F Elements, processes, and techniques for creating and writing creative nonfiction collections. Includes forms, theme, voice, style, with an emphasis on student development as a creator of creative nonfiction collections through reading, practice, writing, and discussion. ENGL 9 — Writing the Personal Journal 3 Units Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 54 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 9B — Expanding the Personal Journal 3 Units Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture Prerequisite: ENGL 9 Emphasizes advanced techniques for journal writing. Students will develop techniques that allow them to turn private work into public pieces. Processes and techniques will be improved through practice and discussion. ENGL 64 — Writing Effective Sentences 1 Unit Not Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 18 hours lecture Prerequisite: Eligibility for ENGL 67 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 65 — Grammar Review 1 Unit Not Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 18 hours lecture Prevery undamentals of English for the student who needs a practical course focusing on usage and grammar: case, agreement, verbs, verbals, fragments, shi |
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| 54 hours lecture Prerequisite: ENGL 1A or ENGL 1AH | memoir collection. Includes setting, character development, dialogue, theme, voice, laws and ethics, and publication with an emphasis of student development as a writer of a complete book length memoir | Not Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 18 hours lecture Review 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, |
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| ENGL 66 — Paragraph Writing 1 Unit Not Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 18 hours lecture Analysis 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 Fundamentals 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 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 | 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 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. ENGLISH: LITERATURE LIT 1 — Early American Literature 3 Units Degree Applicable, CSU, UC | Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture <i>Prerequisite: ENGL 1A</i> A chronological study of major works from the Romantic Era through the Victorian and Modern periods to contemporary texts. LIT 10 — Survey of Shakespeare 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 Shakespeare's histories, tragedies, comedies, and selected sonnets with their historical and literary context, emphasizing their relevance to contemporary culture and values. LIT 11A — World Literature to 1650 3 Units |
| Comprehension in conjunction with related writing. ENGL 68 — Preparation for College Writing Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 72 hours lecture | 54 hours lecture <i>Prerequisite: ENGL 1A</i> American literature of the Seventeenth, Eighteenth, and Nineteenth Centuries. Emphasizes writers who created an American literary identity and shaped America's cultural mythology. | Degree Applicable, CSU, UC 54 hours lecture <i>Prerequisite: ENGL 1A</i> Surveys works of classical Greece through the Renaissance. Emphasizes the interrelationship of literature, art, society, politics, philosophies and general culture. |
| Prerequisite: ENGL 67 or AMLA 43W or satisfactory score on the English Placement Test 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. | LIT 2 — Modern American Literature 3 Units Degree Applicable, CSU, UC 54 hours lecture Prerequisite: ENGL 1A Emphasizes characteristic late 19th, 20th, and 21st century concerns as they relate to American literary form and content. LIT 3 — Multicultural American Literature 3 Units | LIT 11B — World Literature from 1650 3 Units Degree Applicable, CSU, UC 54 hours lecture Prerequisite: ENGL 1A Works and ideas from 1650 through the 21st century emphasizing those works which not only reflect qualities of universal greatness but |
| ■ 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 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. | Degree Applicable, CSU, UC 54 hours lecture <i>Prerequisite: ENGL 68 or passing score on current placement test</i> 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 | 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. LIT 14 — Introduction to Modern Poetry 3 Units Degree Applicable, CSU, UC 54 hours lecture <i>Prerequisite: ENGL 1A</i> Examines the significant poetry of England and America in the 20th and 21st centuries, with the major emphasis on contemporary poems. |
| ENGL 81 — Language Acquisition 3 Units Degree Applicable, CSU 54 hours lecture <i>Prerequisite: ENGL 1A</i> Language structure, linguistics, language development. Explores first and second-language acquisition as it pertains to K-12 learners. Meets the Commission on Teaching Credentialing standards for Language Acquisition requirement for elementary school teaching credential. | American, Native American, Asian American, Gay and Lesbian American, disability groups and religious groups. I LIT 6A — Survey of English Literature Segree Applicable, CSU, UC 54 hours lecture <i>Prerequisite: ENGL 1A</i> A chronological study of major works from Beowulf and the Anglo- Saxon period to the mid-18th century. | ■ LIT 15 — Introduction to Cinema 3 Units Degree Applicable, CSU, UC 54 hours lecture <i>Prerequisite: ENGL 1A</i> 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 Prerequisite: ENGL 1A 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 47 — The Bible as Literature: New 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 and historical analysis to selected books of the Old Testament and the New Testament. FAMILY AND CONSUMER SCIENCES FCS 41 — Life Management 3 Units | Consumer Sciences Degree Applicable (May be taken four times for credit) (May be taken for Pass/No Pass only) 75 to 225 hours lab <i>Prerequisite: Compliance with work experience regulations as designated</i> <i>in the College Catalog.</i> Provides Family and Consumer Science majors with actual on-the-job experience in an approved work site related to classroom instruction. A |
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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. | Degree Applicable, CSU 54 hours lecture Life 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, problem solving, time management, money management, education | 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 Family and Consumer Sciences faculty. Students who repeat this course will improve skills through further instruction and practice. FASHION MERCHANDISING AND DESIGN FASH 8 — Introduction to Fashion 3 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. | 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 Degree Applicable, CSU 54 hours lecture | 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 and qualifications. FASH 9 — History of Costume and Fashion 3 Units |
| 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 Prerequisite: ENGL 1A | 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. | Degree Applicable, CSU 54 hours lecture 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. |
| 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 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 | ■ FCS 80 — Personal Financial Planning 3 Units Degree Applicable, CSU 54 hours lecture Personal and family financial planning for those who wish to understand their own finances across the lifespan and assist others in money management. Topics include financial goal setting, budgeting, consumer credit, debt management, banking functions, income taxes, home ownership, insurance, investing, and retirement planning. Students may not earn credit for both BUSA 71 and FCS 80. | FASH 10 — Clothing Construction I 3 Units Degree Applicable, CSU 36 hours lecture 54 hours lab 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. |
| <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. | | ■ FASH 12 — Clothing Construction II 3 Units Degree Applicable, CSU 36 hours lecture 54 hours lab <i>Prerequisite: FASH 10</i> 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. |

| ■ FASH 15 — Fashion and Identity 3 Units Degree Applicable, CSU 54 hours lecture Sociological, psychological, cultural, and fashion industry influences on clothing design and selection. The elements and principles of design and their impact on apparel selection will be explored. ■ FASH 17 — Textiles 3 Units | ■ FASH 24 — Fashion Patternmaking by Computer 3 Units Degree Applicable 36 hours lecture 54 hours lab <i>Advisory: FASH 21</i> Industrial fashion patternmaking and grading using Gerber Computer Aided Design (CAD) technology. Exploration of drawing techniques, pattern development, flat pattern manipulation and the sizing and | ■ FASH 32 — Fashion Design and Product Development III 3 Units Degree Applicable 36 hours lecture 54 hours lab <i>Prerequisite: FASH 31</i> 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 |
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| Degree Applicable, CSU, UC 54 hours lecture Manufacturing of textiles and fabrics and the factors that determine the | grading of patterns. FASH 25 — Fashion Computer-Assisted Drawing 3 Units | sketchbook will be maintained. Includes resume preparation and job search appropriate for the fashion design industry. |
| suitability for end use. Topics include natural and synthetic fibers, yarns, fabric construction, dyes, finishes, legislation, and care. Emphasis is on selection criteria for textile product design and recent developments in the textile field. | Degree Applicable, CSU 36 hours lecture 54 hours lab <i>Advisory: FASH 20</i> Technical fashion drawing techniques using Adobe Illustrator and | ■ FASH 35 — Special Topics in Fashion Design 2 Units Degree Applicable (May be taken four times for credit) 18 hours lecture 54 hours lab |
| ■ FASH 20 — Illustration for Fashion and Costume Design 3 Units Degree Applicable, CSU 36 hours lecture 54 hours lab | Photoshop. Includes 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. | <i>Prerequisite: FASH 10</i> 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 |
| 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 26 — Fashion Computer Assisted Design 2 Units Degree Applicable 18 hours lecture 54 hours lab | skills through further instruction and practice. FASH 62 — Retail Store Management and Merchandising 3 Units Degree Applicable, CSU |
| ■ FASH 21 — Patternmaking I 3 Units Degree Applicable, CSU 36 hours lecture 54 hours lab <i>Prerequisite: FASH 10</i> Theory and application of basic flat patternmaking techniques to create | 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 I 3 Units | 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. |
| garment designs using industry standards. By means of dart and seam manipulation, slopers will be created, constructed and fitted. | 54 hours lecture Advisory: FASH 15 and FASH 60 | FASH 63 — Advertising and Promotion 3 Units Degree Applicable, CSU 54 hours lecture |
| ■ FASH 22 — Fashion Design By Draping 3 Units Degree Applicable 36 hours lecture 54 hours lab <i>Prerequisite: FASH 10</i> Three dimensional dress design through draping fabrics directly to a | Advisory: FASH TS dild FASH 60 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. | Characteristics and role of advertising and promotion in business. 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. |
| 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 Prerequisite: FASH 21 Intermediate pattern drafting and flat patternmaking, with an introduction to the sizing and grading of patterns. 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 <i>Prerequisite: (FASH 20 or 25) and (FASH 21 or 22) and FASH 30</i> Industrial techniques of drawing production flats and design room sketches with a focus on swim wear, active wear, children's and junior clothing, and the full-fashion figure. Includes creation and maintenance of a personal design sketchbook, development of customer-specific fashion lines, textile selection, cost sheet development, full-color illustrating, full-scale patternmaking, and garment construction. | ■ 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. |

| FASH 91 — Field Studies - New York Degree Applicable (May be taken four times for credit) 36 hours lecture <i>Corequisite: FASH 90 (may have been taken previously)</i> Fashion industry travel study in New York City with daily scheduled lectures and field studies of the diverse fashion industries to include major designers, fashion trend services, retailers, manufacturers, costume/textile exhibits and archives, and museums. Students who repeat this course will improve skills through further instruction and practice. FASH 92 — Field Studies - Fashion Capitals S4 hours lecture <i>Corequisite: FASH 90 (may have been taken previously)</i> Fashion industry travel study to fashion capitals with daily scheduled lectures and field studies of the diverse international industry to include designers, fashion trend services, retailers, manufacturers, textile mills, costume textile exhibits and archives, and museums. Students who repeat this course will improve skills through further instruction and practice. FIRE 6 — Hazardous Material 54 hours lecture Hazardous chemicals, their physica characteristics when involved in spregarding emergency procedures, I | Degree Applicable, CSU 34 nours lecture 1 free protection and related fields; and extinguishing agents, fire command and control procedures, nology 3 Units Degree Applicable, CSU 30 mits nology 3 Units Degree Applicable, CSU FIRE 8 — Fire Company Organization and Management 3 Units Degree Applicable, CSU 54 hours lecture Advisory: FIRE 1 Review of fire department organization, fire company organization, the company office, personnel administration, communication, fire equipment, maintenance, training, fire prevention, fire fighting, company office, personnel administration, communication, fire equipment, maintenance, training, fire prevention, fire fighting, company office, personnel administration, communication, fire equipment, maintenance, training, fire prevention, fire fighting, company office, personnel administration, communication, fire equipment, maintenance, training, fire prevention, fire fighting, company office, personnel administration, communication, fire equipment, sprinkler cial hazards, fire alarm and detection n for Fire Protection 3 Units safety effects on preplanning, d operations, fire and building codes 54 hours lecture safety effects on preplanning, d operations, fire and building codes 54 hours lecture safety effects on preplanning, d operations, fire and building codes 54 hours lecture Victos 3 Units Degree Applicable, CSU </th |
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| 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 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 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. ■ 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 | GEOG 30H — Geography of California - Honors 3 Units Degree Applicable, CSU 54 hours lecture <i>Prerequisite: Acceptance into the Honors Program</i> Thematic approach to issues, processes, and topics relevant to the study of California geography. 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 human-environment interface. An honors course designed to provide an enriched experience. Students may not receive credit for both GEOG 30 and GEOG 30H. Field trip required. |
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| Degree Applicable, CSU, UC 54 hours lab 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. 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 both GEOG 1L and GEOG 1LH. GEOG 2 — Human Geography 3 Units 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 world regional understanding. GEOG 2H — Human Geography - Honors J Units Degree Applicable, CSU, UC 54 hours lecture Prerequisite: Acceptance into the Honors Program | The geographical analysis of past and current patterns of world urbanization. Emphasis will be placed on city origins, growth, development, and current problems. GEOG 10 — Introduction to Geographic 3 Units 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 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 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 human-environment interface. Field trip required. | GEOG 91 — Service Learning for Geography 1 Unit Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 18 hours lecture Increases awareness and appreciation for civic responsibility to the environment through service learning. Students will assess the need for restoring significant habitats damaged by pollution, fire, erosion, or invasive species and learn the importance of being good stewards of the environment. Field trips required. GEOG 91L — Geography Service Learning Laboratory 0.5-2 Units Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 27 to 108 hours lab <i>Corequisite: GEOG 91 (May have been previously taken)</i> Examines and addresses environmental needs of the community through service learning projects. Students will perform work needed for restoring significant habitats damaged by pollution, fire, erosion or invasive species. Examples of some of the work include planting trees, building trails, or collecting litter. Field trips required. 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 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. |

| GEOLOGY GEOL 1 — Physical Geology 4 Units Degree Applicable, CSU, UC 54 hours lecture 54 hours lab Prerequisite: Eligibility for MATH 51 An introduction to geological thinking and Earth processes. Essentials of minerals, rocks, earthquakes, volcanoes, and landscapes are presented | ■ GEOL 8L — Earth Science Laboratory 1 Unit 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. ■ GEOL 9 — Environmental Geology 3 Units | ■ GEOL 29 — Special Topics in Field Geology 3 Unit: Degree Applicable (May be taken four times for credit) 18 hours lecture 108 hours lab <i>Advisory: GEOL 1 or GEOL 8</i> Field studies of designated geologic provinces and regions. Emphasis on rock identification and interpretation of geologic histories of field areas. |
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| 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. | 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, | Extended overnight field trips, camping, and strenuous hiking required. GEOL 99 — Special Projects in Geology 2 Unit: Degree Applicable, CSU 36 hours lecture In order to offer students the opportunity to explore their disciplines to |
| GEOL 2 — Historical Geology 54 hours lecture 54 hours lab Prerequisite: GEOL 1 or equivalent | 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. | 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 |
| Geologic principles are applied in tracing the tectonic, biologic, and climatic development of Earth, mainly North America, through geologic time. 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. | ■ GEOL 10 — Natural Disasters 3 Units Degree Applicable, CSU, UC 54 hours lecture Surveys the hazards faced by humans from the natural environment. Analyzes a variety of hazards from a geological perspective. Studies the | GERMAN |
| ■ GEOL 7 — Geology of California 3 Units Degree Applicable, CSU, UC 54 hours lecture Introductory geology course highlighting the natural provinces of California, namely their mineral, rock, and petroleum resources, | impact humans have on influencing or exacerbating natural disasters. Includes the role of government in responding to natural disasters. Field trips included. ■ GEOL 24 — Geologic Field Studies: Central California 4 Units Degree Applicable, CSU | 72 hours lecture For students with no previous German. Develops the ability to converse, read, and write in German. Emphasis on oral proficiency. Includes essentials of pronunciation, vocabulary, idioms, and grammatical structures along with an introduction to Germanic culture. |
| volcanoes and earthquakes, landscapes, and geologic history as influenced by plate tectonic and surface processes. Field trips are required and may involve overnight camping. | (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture 54 hours lab Field studies of selected central California geological provinces and | GERM 2 — Continuing Elementary German 4 Unit: Degree Applicable, CSU, UG 72 hours lecture |
| ■ 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 | surrounding areas. Overnight field trips required. Trips require significant hiking. GEOL 25 — Geologic Field Studies: Southern California 4 Units Degree Applicable, CSU | Prerequisite: GERM 1 or equivalent Further development of conversational reading and writing skills in German with emphasis on communication skills, expansion of vocabulary, and understanding of structure. Further study of Germanic culture. |
| (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 <i>Prerequisite: Acceptance into the Honors Program</i> 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. | 54 hours lecture 54 hours lab Field studies of selected southern California geological provinces and surrounding areas. Overnight field trips required. Trips require significant hiking. | GERM 3 — Intermediate German 4 Unit Degree Applicable, CSU, Ut (May be taken for option of letter grade or Pass/No Pass) 72 hours lecture Prerequisite: GERM 2 or three years of high school German 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. |

COURSE DESCRIPTIONS

| Course Descriptions | | |
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| HISTORY HIST 1 — History of the United States 3 Units Degree Applicable, CSU, UC 54 hours lecture Prerequisite: Eligibility for ENGL 68 A survey of the history of the United States from colonial times to the 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 — World History: Prehistoric to Early Modern 3 Units | ■ HIST 7 — History of the United States 3 Units Degree Applicable, CSU, UC 54 hours lecture <i>Prerequisite: Eligibility for ENGL 1A</i> 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 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 | ■ HIST 8H — History of the United States - Honors 3 Unit Degree Applicable, CSU, U 54 hours lecture Prerequisite: Acceptance into the Honors Program 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. |
| Degree Applicable, CSU, UC 54 hours lecture <i>Prerequisite: Eligibility for ENGL 1A</i> Human societies from their origins to the Early Modern period from a global and comparative perspective including social, political, economic, and cultural institutions and changes. | United States as required by Title 5 of the California Administrative Code. HIST 7H — History of the United States - Honors 3 Units Degree Applicable, CSU, UC 54 hours lecture Prerequisite: Acceptance into the Honors Program | HIST 10 — History of Asia 3 Unit: 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 |
| HIST 3H — World History: Prehistoric to Early Modern 3 Units - Honors Degree Applicable, CSU, UC 54 hours lecture Prerequisite: Acceptance into the Honors Program Human societies from their origins to the Early Modern period from a global and comparative perspective including social, political, economic, and cultural institutions and changes. An honors course designed to provide an enriched experience. Students may not receive credit for both HIST 3 and HIST 3H. | 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 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 | of the imperial courts, and the lives of the peasants. HIST 11 — History of Asia 3 Unit Degree Applicable, CSU, UC 54 hours lecture 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. |
| HIST 4 — World History: Early Modern to the Present Degree Applicable, CSU, UC Degree Applicable, CSU, UC S4 hours lecture Prerequisite: Eligibility for ENGL 1A Social, political, economic, and cultural changes during the modern period from a global and comparative perspective. HIST 4H — World History: Early Modern to the Present - Honors Degree Applicable, CSU, UC | Code. An honors course designed to provide an enriched experience. Students may not receive credit for both HIST 7 and HIST 7H. HIST 8 — History of the United States 3 Units Degree Applicable, CSU, UC 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 | HIST 16 — The Wild West - A History, 1800-1890 3 Unit Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 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 Unit |
| 54 hours lecture <i>Prerequisite: Acceptance into the Honors Program</i> Social, political, economic, and cultural change during the modern period from a global and comparative perspective. Includes extensive reading and writing assignments. Students may not receive credit for both HIST 4 and HIST 4H. | 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. | Degree Applicable, CSU, UG 54 hours lecture The cultural and social history of the Mexican people from pre- Colombian civilization to modern Mexico. |

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| HIST 30 — History of the African American 3 Units Degree Applicable, CSU, UC 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 | HIST 39 — California History Begree Applicable, CSU, UC 54 hours lecture Prerequisite: Eligibility for ENGL 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 Burts Degree Applicable, CSU, UC | Degree Applicable 54 hours lecture <i>Advisory: Eligibility for ENGL 68</i> Defines all aspects of general laboratory issues including general laboratory protocols (GLP's), safety, ethics, and terminology relative to the preparation of tissue samples. HT 10 — Histology 3 Units |
| 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. 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 | 54 hours lecture Prerequisite: Eligibility for ENGL 68 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. | Degree Applicable 36 hours lecture 54 hours lab <i>Advisory: ANAT 35</i> 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. |
| 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 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 44 — History of Native Americans 3 Units Degree Applicable, CSU, UC 54 hours lecture <i>Advisory: Eligibility for ENGL 1A</i> 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 | ■ HT 12 — Beginning Histotechniques 5 Units Degree Applicable 54 hours lecture 108 hours lab <i>Prerequisite: HT 1 and HT 2</i> <i>Advisory: MICR 22</i> Theory and practical applications and skill-building in tissue fixation, processing, embedding, sectioning, microtomy, hematoxylin-eosin |
| HIST 35 — History of Africa 3 Units Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) | the Native American narrative is woven into the fabric of U.S. history and is an essential component of the complete American story. | staining (H and E), and microorganism staining. Quality control as it relates to routine histological techniques and equipment. |
| 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 36 — Women in American History 3 Units Degree Applicable, CSU, UC | ■ 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 | ■ HT 14 — Advanced Histotechniques 5 Units Degree Applicable 54 hours lecture 108 hours lab <i>Prerequisite: HT 12</i> Practical applications of special stains for carbohydrates, amyloid, connective tissues, muscle and nervous tissues, including silver stains. Introduction to frozen sections, cytology preparation, and microwave technology. Field trip required. |
| 54 hours lecture <i>Prerequisite: Eligibility for ENGL 68</i> Women's experience placed within the context of major themes of United States history, addressing issues and debates related to gender construction and identity from Colonial times to the present. Political, economic, and social currents within in the context of race, ethnicity, sexual orientation, and class are examined and analyzed. 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. | contracts of a more advanced nature with the instructor to ensure that 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 — Histochemistry/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. |
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| HT 17 — Work Experience in Histotechnology 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: HT 12 and compliance with Work Experience regulations as designated in the College Catalog Provides histotechnology 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. HCSPITALITY AND RESTAURANT MANAGEMENT HRM 51 — Introduction to Hospitality 3 Units Degree Applicable, CSU 54 hours lecture Prerequisite: Eligibility for ENGL 68 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. | HRM 54 — Basic Cooking Techniques Burts Degree Applicable, CSU bours lecture hours lab Advisory: HRM 52 Basic principles of preparing foods for commercial operations; the use and identification of commercial tools and equipment; extending recipes; and choosing the proper food grade; evaluation of food products, and equipment usage. HRM 56 — Management of Hospitality Personnel Units and Operations Degree Applicable, CSU 54 hours lecture Management soft students pursuing a career in supervision within the restaurant/hospitality industry. Application of basic 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. HRM 57 — Restaurant Cost Control 3 Units Degree Applicable, CSU 54 hours lecture Corequisite: HRM 51 (May have been taken previously) Methods for controlling resources within the hospitality operation to method in the more service appration to method in the more service appration to method in the service appration to method in the service appration to method bis for control and previously) | HRM 62 — Catering 3 Units Degree Applicable, CSU 54 hours lecture Comprehensive exploration of the catering business with in-depth study of organizing and catering 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. HRM 64 — Hospitality Financial Accounting 1 3 Units Degree Applicable, CSU 54 hours lecture Prerequisite: BUSA 11 or MATH 51 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. HRM 66 — Hospitality Law 3 Units Degree Applicable, CSU 54 hours lecture Advisory: HRM 51 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. HRM 70 — Introduction to Lodging 3 Units Degree Applicable, CSU |
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| ■ HRM 52 — Food Safety and Sanitation 1.5 Units Degree Applicable, CSU 27 hours lecture <i>Prerequisite: Eligibility for ENGL 68</i> 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 the course. | maximize profits without compromising products. Discusses controls in front of the house, back of the house, purchasing and receiving. HRM 60 — Hospitality Purchasing 3 Units Degree Applicable, CSU 54 hours lecture Basic principles of purchasing for the hospitality 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. | 54 hours lecture Advisory: HRM 91 Introduction to 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. HRM 81 — Garde Manger 3 Units |
| ■ HRM 53 — Dining Room Service Management 3 Units Degree Applicable, CSU 54 hours lecture <i>Advisory: ENGL 68</i> 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. | HRM 61 — Menu Planning 3 Units Degree Applicable, CSU 54 hours lecture <i>Advisory: HRM 51</i> Menu development for all facets of the food service industry including retail and contract operations; emphasis on the economics of the menu and the demographics of the area. Analysis of menus 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. | Degree Applicable 36 hours lecture 54 hours lab <i>Corequisite: HRM 52 (May have been taken previously)</i> Preparation and presentation of cold kitchen foods including: sauces, soups, salads, sandwiches, appetizers, hors d'oeuvres, and buffets. HRM 82 — Baking and Pastry 3 Units Degree Applicable 36 hours lecture 54 hours lab <i>Corequisite: HRM 52 (May have been taken previously)</i> Preparation of baked goods and pastries including: breads, cakes, icing, laminated pastries, cookies, pies, tarts, and plated desserts. |

| HRM 83 — International Cuisines 3 Units Degree Applicable 36 hours lecture 54 hours lab Corequisite: HRM 52 (May have been taken previously) Preparation of international cuisines from Asia, Europe, the Mediterranean, and Latin America. Emphasis will be placed on regional dishes from: China, Japan, India, Thailand, Spain, Italy, France, Greece, Lebanon, and Mexico. HRM 91 — Hospitality Work Experience 1 to 4 Units Degree Applicable, CSU (May be taken four times for credit) (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 Provides students with on-the-job experience in an approved worksite which is related to classroom-based learning. A minimum of 75 paid or 60 00n-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 faculty. Students who repeat this course will improve skills through further instruction and practice. HUMA1 — 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 | Degree Applicable, CSU 54 hours lecture Fundamentals of construction processes, terminology and procedures. Provides an overview of 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. INTERIOR DESIGN I ID 10 — Introduction to Interior Design 3 Units Degree Applicable, CSU 36 hours lecture 54 hours lab Formerly ID 100. Practice of interior design and the planning of total interior environments that meet individual, functional and environmental needs. Field trips may be required. I ID 12 — Materials and Products for Interior Design 3 Units Degree Applicable, CSU 36 hours lecture 54 hours lab Formerly ID 100. Practice of interior design and the planning of total interior environments that meet individual, functional and environmental needs. Field trips may be required. I ID 12 — Materials and Products for Interior Design 3 Units Degree Applicable, CSU 36 hours lecture 54 hours lab Advisory: ID 10 Formerly ID 150. Analysis, application, and evaluation of products and materials used in interior design. Field trips required. I ID 14 — History of Furniture and Decorative Arts 3 Units Degree Applicable, CSU 54 hours lecture Formerly ID 180 and ID 190. Historic development of structure, interior achitecture is illustrated in this overview of design heritage from antiquity to pr | ID 20 — Color and Design Theory I Bugree Applicable, CSU Degree Applicable, CSU Degree Applicable, CSU Server S4 hours lab Formerly ID 130. Elements and principles of design and the creative process of identifying and solving interior design problems. Formal visual properties of line, shape, form, pattern, texture, and color are studied in their relationship to the organizational systems and unifying principles that create balanced designs. Portfolio pieces will be produced. Field trips may be required. ID 21 — Color and Design Theory II 3 Units Degree Applicable, CSU 36 hours lecture 54 hours lab Advisory: ID 20 Elements and principles of design and the creative process of identifying and solving interior design problems. Formal visual properties of line, shape, form, pattern, texture, and color are studied in their relationship to the organizational systems and unifying principles that create balanced designs. Portfolio pieces will be produced. Field trips may be required. ID 22 — Design Drawing for Interior Design 3 Units Degree Applicable, CSU 36 hours lecture 54 hours lab 20 (SU 36 hours lecture 20 (SU 36 hou |
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| | decorative arts throughout the world. Interior architecture is illustrated | |

| ■ ID 25 — Codes and Specifications for Interior Design 3 Units Degree Applicable 36 hours lecture 54 hours lab <i>Prerequisite: ID 22 or ARCH 11</i> Formerly ID 250. Federal and state codes and specifications concerning life-safety issues, barrier free access and universal design requirements relative to residential and contract interior design. Attention is given to performance, health safety, and universal design for specifying interior materials and products. Portfolio pieces will be produced. Field trips may be required. | ID 31 — Building Systems for Interior Design 3 Units Degree Applicable, CSU 36 hours lecture 54 hours lab Prerequisite: ID 22 or ARCH 11 Residential and commercial construction systems and materials. Includes typical building systems used in construction that affect interior design and elements that make up the foundation, floors, walls, and roof. Field trips may be required. ID 32 — Lighting Design and Theory for Interior Design Degree Applicable, CSU | ID 38 — Internship in Interior Design 1 to 3 Units 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/Internship regulations as designated in the College Catalog. Formerly ID 240A and 240B. Designed to provide the student with actual on-the-job experience in the interior design profession, which relates to classroom based learning. Placement is not guaranteed but assistance is provided by the interior design faculty. A minimum 75 paid clock hours or 60 non-paid clock hours per semester is required. Students who repeat this course |
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| ID 26 — Space Planning for Interior Design 3 Units Degree Applicable, CSU 36 hours lecture 54 hours lab Prerequisite: ID 22 or ARCH 11 Advisory:ID 25 Formerly ID 170. Space planning with an emphasis on programming, behavioral aspects of space, use of furniture standards and applicable codes. Planning skills are gained through the application of basic principles to actual spaces. Portfolio pieces will be produced. Field trips may be required. ID 27 — Rapid Visualization 3 Units Degree Applicable, CSU 36 hours lecture 54 hours lab | 36 hours lecture 54 hours lab Prerequisite: ID 22 or ARCH 11 Formerly ID 210. Principles and theory of interior lighting design, lighting technology, terminology, development of lighting design concepts and selection and placement of luminaries to achieve the desired result. Portfolio pieces will be produced. Field trips may be required. ID 34 — Computer Aided Drawing for Interior 3 Units Degree Applicable, CSU 36 hours lecture 54 hours lab Prerequisite: ID 23 Three-dimensional computer modeling, rendering, lighting, and fly- | will improve skills through further instruction and practice. I D 39 — Interior Design Studio II 3 Units Degree Applicable, CSU Geree Applicable, CSU Geree Applicable, CSU Comparison of the service of |
| Prerequisite: ID 22 or ARCH 11 Formerly ID 260. Methods, techniques, and tools used in illustrating interior spaces with an emphasis on rapid production. Includes techniques of drawing and rendering volume, tone, texture, perspective, and composition using sketching, rapid visualization, and formal composition of one-and two-point perspectives. Portfolio pieces will be produced. Field trips may be required. ID 29 — Interior Design Studio 1 3 Units Degree Applicable, CSU 36 hours lecture 54 hours lab <i>Prerequisite: ID 26</i> Formerly ID 105. Analysis and application of design concepts to interior environments. Focuses on the creative process of identifying, evaluating and solving design problems while incorporating universal and sustainable design in a studio environment. Includes research and analysis of end-user needs, space requirements, existing architectural elements, and site conditions. Portfolio pieces will be produced. Field trips may be required. | throughs as used in interior design. Portfolio pieces will be produced. Field trips may be required. ID 36 — Professional Practices for Interior Design 3 Units Degree Applicable, CSU 36 hours lecture 54 hours lab Advisory: ID 29 Development of individual professional identities through self-branding as a marketing strategy. Emphasis is on personal, educational, and professional qualifications required for entry into interior design and related professions. Surveys the interior design profession, industry, and related occupations. Portfolio pieces will be produced. Field trips may be required. ID 37 — Business Practices for Interior Design 3 Units | conditions. Portfolio pieces will be produced. Field trips may be required. I ID 40 — Kitchen and Bath Studio I 3 Units Degree Applicable 36 hours lecture 54 hours lab <i>Prerequisite: ID 29</i> <i>Corequisite: ID 31 (May have been taken previously.)</i> <i>Advisory: ID 32</i> Kitchen and bath design that focuses on ergonomic principles, and specific materials including floor and wall surfaces, window treatments, cabinet selection, appliance and fixture selection, counter top selection, and lighting. Projects will consist of dimensioned floor plans, elevations, isometric drawings, perspective drawings, and section drawings completed in accordance with National Kitchen and Bath Association (NKBA) standards and nomenclature. Portfolio pieces will be produced. Field trips may be required. |

| ■ ID 41 — Kitchen and Bath Studio II 3 Units Degree Applicable 36 hours lecture 54 hours lab <i>Prerequisite: ID 40</i> <i>Advisory: ID 32</i> Kitchen and bath design that focuses on universal design, design concepts, and historical design for kitchen and bath projects. Emphasis is placed on ergonomics and American Disability Act (ADA) considerations. Projects will utilize graphic standards as recommended by NKBA. Field trips may be required. | ITALIAN ITAL 1 — Elementary Italian 4 Units Degree Applicable, CSU, UC 72 hours lecture Degree Applicable, CSU, UC 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 4 Units Degree Applicable, CSU, UC | 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 action of letter grade or Pase/No Pase) |
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| ■ ID 48 — Internship in Kitchen and Bath 1 to 3 Units 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/Internship regulations as designated in the College Catalog. Corequisite: ID 40 (May have been taken previously.) Formerly ID 240C. Designed to provide the student with actual on-the-job experience in the interior design profession at a National Kitchen and Bath (NKBA) member work site, which relates to student?s classroom based learning. Placement is not guaranteed but assistance is provided by the interior design faculty. A minimum 75 paid clock hours or 60 non-paid clock | 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 3 — Intermediate Italian 4 Units Degree Applicable, CSU, UC 72 hours lecture Prerequisite: ITAL 2 or equivalent Development 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. | (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture Prerequisite: ITAL 1 or equivalent 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 Italian 3 Units Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture Prerequisite: ITAL 2 or ITAL 52 or equivalent Development 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. |
| ID 50 — Interior Design Specialized Studio 3 Units Degree Applicable (May be taken four times for credit) 36 hours lecture 54 hours lab <i>Prerequisite: ID 26</i> Exploratory design experience to enhance interior design curriculum. The content of each course and the methods of study vary each semester and depends on the particular project under consideration Students will explore advanced interior design concepts and presentation techniques. Students who repeat this course will improve skills through further instruction and practice. Portfolio pieces will be produced. Field trips may be required. ID 52 — Independent Studies in Interior Design 1 to 3 Units Degree Applicable (May be taken four times for credit) 54 to 162 hours lab 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 Interior Design. Portfolio pieces will be produced. | ITAL 4 — Continuing Intermediate Italian 4 Units Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 72 hours lecture Prerequisite: ITAL 3 or equivalent Further practice in speaking and writing of intermediate Italian. Collateral reading in Italian. Extensive exposure to cultural elements from Italy such as art, music, film and history. 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 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 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. |

COURSE DESCRIPTIONS

| JAPANESE | JAPN 53 — Conversational Japanese 3 Units | JOUR 104 — Newspaper and Magazine Production 2 Units |
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| ■ JAPN 1 — Elementary Japanese 4 Units Degree Applicable, CSU, UC 72 hours lecture Intended 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. | 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. | and Photography Lab Degree Applicable, CSU (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 108 hours lab Provides experience in the production of a college newspaper and magazine. Provides learning through electronic assembly of the newspaper and magazine using computers, layout and design software, |
| ■ JAPN 2 — Continuing Elementary Japanese 4 Units Degree Applicable, CSU, UC 72 hours lecture | JOURNALISM JOUR 100 — Mass Media and Society Degree Applicable, CSU, UC | image editing software, illustration software, digital cameras, and scanners. Students who repeat this course will improve skills through further instruction and practice. |
| Prerequisite: JAPN 1 or equivalent 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. | (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture <i>Prerequisite: ENGL 1A</i> Survey of the mass media and the interrelationships of media with | ■ JOUR 105 — Editor Training 1 Unit Degree Applicable (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) |
| ■ JAPN 3 — Intermediate Japanese 4 Units Degree Applicable, CSU, UC 72 hours lecture <i>Prerequisite: JAPN 2 or equivalent</i> Continued development of Kanji (50 or more characters) with 60 | society, including history, structure, and trends. Additionally, the following topics will be covered as they pertain to the mass media: economics, technology, law and ethics and such social issues as gender and cultural diversity. JOUR 101 — Beginning News Writing 3 Units | 54 hours lab Advisory: JOUR 101 Stresses 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 |
| additional readings. Continued development of writing ability emphasizing development of thought through Kanji, Hiragana and Katakana. Additional development of cultural application of Japanese. | Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture | course will improve skills through further instruction and practice. JOUR 106 — Online New Media Laboratory Degree Applicable, CSU |
| ■ JAPN 4 — Continuing Intermediate Japanese 4 Units Degree Applicable, CSU, UC 72 hours lecture Prerequisite: JAPN 3 or equivalent Further 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 | 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 reporting experiences, including personal interviews, speech, meeting and other event coverage, deadline writing, and use of AP style. JOUR 102 — Intermediate Newswriting 3 Units | (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 108 hours lab Provides experience in a variety of online publishing activities to produce and enhance the online edition of a college newspaper. Provides learning thorugh use of computers and online publishing software, podcasting software, web design software, live and videotape |
| topics and introduction to Japanese literature. JAPN 5 — Advanced Japanese 4 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. | Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture <i>Prerequisite: JOUR 101</i> Develop expertise in news beat coverage and other specialized writing, including computer-assisted reporting. Print journalism emphasized with introduction to Web reporting. Assignments may include writing for the campus newspaper. JOUR 103 — Writing for the Newspaper and Magazine 2 Units Degree Applicable (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 108 hours lab <i>Prerequisite: JOUR 101</i> Practical experience writing for the college student newspaper or magazine. Activities may include reporting, story writing, copyediting. Students who repeat this class will improve skills through further instruction and practice. | broadcasting software, digital cameras, video cameras, and wireless computer technology. 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 <i>Advisory: ENGL 1A</i> 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, feature stories, institutional publications, and newsletters. The relationships between public relations, the mass media, and society will be explored. | ■ JOUR 112 — Work Experience in Journalism 3 to 4 Units Not Degree Applicable (May be taken four times for credit) (May be taken for Pass/No Pass only) 225 to 300 hours lab <i>Prerequisite: Compliance with Work Experience regulations as designated</i> <i>in the College Catalog. JOUR 101 or JOUR 1A and ENGL 1A</i> 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 or 60 pon-paid clock hours per | LEARNING ASSISTANCE SERVICES LERN 48 — Basic Math Skills Review 3 Unit: Not Degree Applicable (May be taken for Pass/No Pass only) 54 hours lecture Math fundamentals: adding, subtracting, multiplying and dividing whole numbers and fractions. Emphasis on math learning strategies such as organization and managing math anxiety. LERN 49 — Math Skills Review 3 Unit: |
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| ■ 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 <i>Advisory: JOUR 108 or JOUR 8</i> 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 | LATIN LATN 1 — Elementary Latin 4 Units | (May be taken for Pass/No Pass only) 54 hours lecture 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, proportions, percentages, and integers. Covers math study strategies such as learning styles and self-assessment. |
| distributed throughout the semester. Students who repeat this course will improve skills through further instruction and practice. JOUR 110 — Magazine Writing and Production Ubgree Applicable (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture 54 hours lab <i>Prerequisite: JOUR 101 or JOUR 1A</i> | (May be taken for option of letter grade or Pass/No Pass) 72 hours lecture <i>Advisory: Eligibility for READ 90 or eligibility for AMLA 33R</i> 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. | ■ LERN 61 — Skills Development Laboratory 1 Uni 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). |
| 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 Begree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) | ■ LATN 2 — Continuing Elementary Latin 4 Units Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 72 hours lecture <i>Prerequisite: LATN 1</i> <i>Advisory: Eligibility for READ 90 or eligibility for AMLA 33R</i> Second semester of coursework for students with prior coursework in Latin. Daily practice in vocabulary, grammar, and reading. Explores | LERN 62 — Skills Development Laboratory 2 Unit: Not Degree Applicable (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). |
| 54 hours lecture <i>Prerequisite: JOUR 1A or JOUR 101</i> 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 media. Lecture and discussion of issues and responsibilities confronting broadcast journalists including ethics and changing technology. | Roman history and culture. LEADERSHIP LEAD 55 — Exploring Leadership S4 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. | LERN 81 — Improving Writing 3 Units Not Degree Applicable (May be taken for Pass/No Pass only) 54 hours lecture Assist students who wish to improve prewriting, writing, editing, and revising skills. Provide instruction in content and structure of sentences, paragraphs, and essays; emphasize development in writing through the integration of grammar and critical thinking. |

COURSE DESCRIPTIONS

| LEARNING COMMUNITIES | MANUFACTURING TECHNOLOGY | MFG 19 — Parametric Solid Modeling for Manufacturing 2 Units |
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| ■ LCOM 80 — Learning Communities: Individual Connections 1 Unit Not Degree Applicable 18 hours lecture Explores connections between self, courses, and learning community themes. Develops social networking skills, cognitive strategies, academic behaviors and confidence, and team building as related to success within a learning community. Off-campus participation in a service learning project may be required. Concurrent enrollment in a learning community is required. | MFG 10 — Mathematics and Blueprint Reading 3 Units for Manufacturing Degree Applicable 54 hours lecture Applications of mathematical principles, including fractions, decimals, ratio/proportion, geometry and trigonometry to manufacturing problems and their solutions. Reading and interpreting part drawings, assembly drawings and sketches used in the manufacturing industry. MFG 11 — Manufacturing Processes I 2 Units | Degree Applicable 18 hours lecture 54 hours lab <i>Advisory: MFG 17</i> Development of feature-based solid models on a computer using current industry software; creation of simple assemblies and two- dimensional drawings of modeled part and assemblies. Transfer of three-dimensional solid model to a computer-assisted manufacturing (CAM) system to create computer numeric control (CNC) machined part. |
| ■ LCOM 90 — Learning Communities: Campus Connections 1 Unit Degree Applicable 18 hours lecture Analyzes connections between the individual and the campus. Focuses on the benefits of campus involvement in order to create student identity. Identifies connections between themes and topics of courses within a learning community. Explores problem-based learning. Concurrent enrollment in a learning community is required. Field trips may be required. | Degree Applicable, CSU 18 hours lecture 54 hours lab Manual and computerized manufacturing, tool nomenclature, and lathe and mills operations, computer numerical control (CNC) machinery, applications, and tooling. MFG 12 — Manufacturing Processes II 2 Units Degree Applicable, CSU 18 hours lecture | MFG 25 — Advanced Parametric Solid Modeling 2 Units for Manufacturing 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, |
| Interdisciplinary Connections Degree Applicable 18 hours lecture Interprets the connections between real world problems, course content, and learning community themes. Synthesizes interdisciplinary connections utilizing problem-based learning within a learning community. Evaluates successful team selection based on specific criteria including leadership skills and interpersonal relationships to establish collective efficacy. Concurrent enrollment in a learning | 54 hours lab Advisory: MFG 11 Machine tool manufacturing process theory and practice in milling operations, tooling set up, indexing, metallurgy, heat treatment, precision grinding, and basic tool design with study and application of manufacturing process to computerized equipment. I MFG 15 — AutoCAD 2D 2 Units Degree Applicable 18 hours lecture 54 hours lab | and advanced sheet metal, and animation. MFG 27 — Autodesk Inventor 2 Units Degree Applicable 18 hours lecture 54 hours lab Advisory: MFG 19 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. |
| community is required. Field trips may be required. LIBRARY AND INSTRUCTIONAL MEDIA LIBR 1 — Information Resources and Research Methods 3 Units 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. LIBR 1A — Introduction to Library Research 1 Unit Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 18 hours lecture Advisory: Eligibility for ENGL 68 Basic research skills for lifelong information competency necessary for independent research and critical thinking. Topics include search strategies, citation, and use of library resources. | Creation of two-dimensional mechanical drawings and part geometry that can be transferred to various computer-aided manufacturing systems. | MFG 38 — MasterCAM I 2 Units 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 — MasterCAM II 2 Units Degree Applicable, CSU 18 hours lecture 54 hours lab Advisory: MFG 38 Use MasterCAM software to create three-dimensional wire-frame and solid part geometry. |

| MFG 39 — SurfCAM I 2 Units | MATHEMATICS | MATH 55 — Statway I 5 Units |
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| Degree Applicable, CSU 18 hours lecture 54 hours lab <i>Advisory: MFG 11, MFG 85</i> 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 Degree Applicable, CSU | MATH 50 — Pre-Algebra 3 Units Not Degree Applicable 54 hours lecture Prerequisite: LERN 49 or qualifying score on current department placement test 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 51 — Elementary Algebra 4 Units Not Degree Applicable | Degree Applicable 90 hours lecture <i>Prerequisite: MATH 50 or qualifyng score on current department placement</i> <i>test.</i> The Statway path is a two-semester sequence recommended for majors that require no mathematics beyond freshman-level statistics. Math 55 is the first semester of two in the Statway sequence. Math 55 includes topics from descriptive statistics (experimental design and descriptive statistics), and beginning algebra (linear and quadratic algebraic phenomena), and is a prerequisite for Math 115, the second course in the Statway sequence. Both courses in the sequence, Math 55 and 115, must be taken to receive credit for college level statistics. |
| 18 hours lecture 54 hours lab <i>Advisory: MFG 39</i> 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 74 — Manufacturing Technology Work Experience 1 Unit Not Degree Applicable (May be taken for Pass/No Pass only) 75 hours lab <i>Prerequisite: Compliance with work experience regulations as designated in the College catalog. Completion of MFG 11, 12, 58, 70 and 85.</i> 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. | 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. MATH 51A — Elementary Algebra - First Half 3 Units Not Degree Applicable S4 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; polynomial operations and factoring; rational expressions and equations; ratios, proportions, formulas, and variation; applications. | 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. MATH 71 — Intermediate Algebra 5 Units: Degree Applicable 90 hours lecture Prerequisite: MATH 51 or MATH 51B or qualifying score on current department placement test 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 |
| MFG 85 — Manual Computerized Numerical Control 2 Units (CNC) Programming 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. 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. | ■ MATH 51B — Elementary Algebra - Second Half 3 Units Not Degree Applicable 54 hours lecture <i>Prerequisite: MATH 51A</i> 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). | sections; sequence, series and the binomial theorem. MATH 71A — Intermediate Algebra - First Half 3 Uniter 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 approximately half of the MATH 71 topics. A student must complete both MATH 71A and 71B to have taken the equivalent of MATH 71, Intermediate Algebra. |

| MATH 71B — Intermediate Algebra - Second Half 3 Units Degree Applicable | MATH 100 — Survey of College Mathematics 3 Units Degree Applicable, CSU, UC | MATH 130 — College Algebra 4 Units Degree Applicable, CSU, UC |
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| 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. | 54 hours lecture Prerequisite: (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, | 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, |
| MATH 71X — Practical Intermediate Algebra 5 Units Degree Applicable | number theory, geometry, graph theory and mathematical modeling. | series, theory of equations, mathematical induction and binomial formula. |
| 90 hours lecture Prerequisite: Math 51 or Math 51B or Math 55 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 | MATH 110 — Elementary Statistics 3 Units 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. MATH 110H — Elementary Statistics - Honors 3 Units | MATH 140 — Calculus for Business 4 Units 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. |
| curve fitting. | Degree Applicable, CSU, UC 54 hours lecture | MATH 150 — Trigonometry 3 Units |
| MATH 96 — Strategies for Math Success 1 Unit 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. | Prerequisite: (MATH 71 or MATH 71X or MATH 71B or qualifying passing score on current department placement test) and acceptance into the Honors Program 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. An honors course designed to provide an enriched experience. Students may not receive credit for both MATH 110 and MATH 110H. | Degree Applicable, CSU 54 hours lecture Prerequisite: 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 99 — Special Projects in Mathematics 2 Units Degree Applicable, CSU (May be taken four times for credit) 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 who repeat this course will improve skills through further instruction and practice. | MATH 115 — Statway II 5 Units Degree Applicable, CSU 90 hours lecture Prerequisite: MATH 55 The Statway path is a two-semester sequence recommended for majors that require no mathematics beyond freshman-level statistics. Math 115 is the second semester of the Statway sequence. Math 115 includes topics from intermediate algebra (radical, exponential, and logarithmic algebraic phenomena) and inferential statistics. MATH 120 — Finite Mathematics 3 Units Degree Applicable, CSU, UC 54 hours lecture Prerequisite: 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. | MATH 160 — Precalculus Mathematics 4 Units Degree Applicable, CSU, UC 72 hours lecture 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. |

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| MATH 180 — Calculus and Analytic Geometry Degree Applicable, CSU, UC Degree Application 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 Geometry Degree Applicable, CSU, UC Degree Applicable, CSU, UC On hours lecture Prerequisite: MATH 180 Applications of integration, techniques of integration; indeterminate forms | ■ MATH 285 — Linear Algebra and Differential Equations 5 Units Degree Applicable, CSU, UC 90 hours lecture <i>Prerequisite: MATH 280</i> 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 equations using undetermined coefficients, variation of parameters, and power series, with applications. Solutions to linear and non-linear systems of differential equations, including numerical solutions. Matrix algebra, solutions of linear systems of equations, and determinants. Vector spaces, linear independence, basis and dimension, subspace and inner product space, including the Gram-Schmidt procedure. Linear transformations, kernel and range, eigenvalues, eigenvectors, diagonalization and cummetric matrices | ■ MENT 56L — Medical-Surgical Clinical Experience 4 Units Degree Applicable (May be taken for Pass/No Pass only) 216 hours lab <i>Corequisite: MENT 56</i> 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 emergency procedures, circulation, ventilation, fluids, and electrolytes. Psychosocial aspects of care including interdependence, role function, self concept, care of aged, and cultural aspects. Application of nursing skills for those with medical-surgical problems and special needs. Calculation and administration of medications. Roy?s Adaptation Model serves as the conceptual framework. |
| and improper integrals; infinite series; plane curves and parametric equations; vectors in two and three space and their applications. MATH 210 — Concepts of Elementary Mathematics 3 Units Degree Applicable, CSU 54 hours lecture <i>Prerequisite: MATH 100</i> Structure and theory of the mathematics that constitute the core of K-8 mathematics curriculum. Concepts include the essential elements of a | diagonalization and symmetric matrices. MEDICAL TERMINOLOGY MEDI 90 — Medical Terminology 3 Units Degree Applicable, CSU 54 hours lecture Introduction to the use and meaning of the medical terminology used in various allied health fields. Relates to other allied health fields and can apply to secretarial science majors. | MENT 58D — Advanced Medical-Surgical Nursing 4 Units and Pharmacology for Psychiatric Technicians 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. |
| number system; fundamental understanding of operations upon whole numbers, rational numbers and integers; higher-order critical thinking skills and strategies in the area of problem solving. MATH 245 — A Transition to Advanced Mathematics 3 Units Degree Applicable, CSU, UC 54 hours lecture <i>Prerequisite: MATH 181</i> 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 | MENTAL HEALTH/PSYCHIATRIC TECHNICIAN MENT 40 — Introduction to Interviewing and Counseling 3 Units Degree Applicable 54 hours lecture Theory and practice in interviewing skills. 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 58L — Advanced Medical-Surgical Nursing for Psychiatric Technicians Clinical Degree Applicable (May be taken for Pass/No Pass only) 90 hours lab <i>Prerequisite: MENT 56 and MENT 56L</i> Application of nursing skills to patients with medical and surgical disorders. Administration of medications. MENT 70 — Introduction to Psychiatric Technology Degree Applicable 27 hours lecture |
| present and understand mathematical proofs. Image: Math 280 — Calculus and Analytic Geometry Degree Applicable, CSU, UC 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. | MENT 56 — Medical-Surgical Nursing for Psychiatric Technicians 9 Units Degree Applicable 162 hours lecture Prerequisite: Admission to the Psychiatric Technician Program Corequisite: MENT 56L Holistic 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. | Prerequisite: Admission to Psychiatric Technician Program Corequisite: MENT 70L Role and function of the Psychiatric Technician. Includes mental health theories of personality development, self-concept, role function, and interdependence. Also includes developmental disabilities theories of sensori-motor techniques and behavior modification techniques. MENT 70L — Introduction to Psychiatric Technicians |

Section 10 175

| MENT 72 — Nursing Care of the Developmentally 7 Units Disabled Person Degree Applicable 126 hours lecture Prerequisite: MENT 56, MENT 56L, MENT 70, MENT 70L Corequisite: MENT 72L Etiology of developmental disabilities; develops the knowledge, skills, and attitudes necessary to safely teach and train the developmentally disabled person. Techniques of behavior modification and sensorimotor 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 5.5 Units Disabled Person - Clinical MENT 72L — Nursing Care of the Developmentally Corequisite: MENT 72 Application of skills needed to teach, train, and provide care for the developmentally disabled person. Calculation and administration of medication. | MENT 82 — Work Experience in Mental Health Technology 2 Units 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 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. METEOROLOGY METO 3 — Weather and the Atmospheric Environment 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 | MICR 22 — Microbiology 4 Units Degree Applicable, CSU, UC 54 hours lecture 54 hours lab Prerequisite: CHEM 10 or CHEM 40 Advisory: BIOL 1, BIOL 4 or BIOL 4H Fundamental concepts of microbiology including viruses, bacteria, fungi, protozoa and parasitic worms. MUSIC MUS 2 — Music Theory 3 Units Degree Applicable, CSU, UC 54 hours lecture Corequisite: MUS 5A Preparation for the study of harmony and form as it is practiced in Western tonal music. Topics include scales, intervals, chords, cadences, counterpoint and Roman numeral analysis. Ability to read music notation is advised. Required for music majors. MUS 3A — Harmony 3 Units |
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| MENT 73L — Psychiatric Nursing for Psychiatric Technicians Clinical Degree Applicable (May be taken for Pass/No Pass only) 287 hours lab Prerequisite: Admission to Psychiatric Technician Program. MENT 56 and MENT 56L Corequisite: MENT 73T Clinical instruction in the treatment of mental disabilities and substance abuse. | 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. 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. | Degree Applicable, CSU, UC 54 hours lecture <i>Prerequisite: MUS 2, MUS 5A</i> <i>Corequisite: MUS 5B</i> 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. |
| Image: Construct the system of the system | MICROBIOLOGY 5 Units 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 concepts of microbiology with emphasis on bacteria. Survey of microbial classification, morphology, physiology and genetics; beneficial and pathological aspects; growth and control of microbes; virology, 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. Field trips are required. | MUS 3B — Harmony 3 Units Degree Applicable, CSU, UC 54 hours lecture <i>Prerequisite: MUS 3A, MUS 5B</i> <i>Corequisite: MUS 6A</i> Further examination of the harmonic style of Western tonal music from the common practice period, with emphasis on the contrapuntal music of the Baroque Era. Topics include secondary function chords, advanced non-chord tones, advanced figured bass realization, harmonic sequences, modified 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. |

| Degree Applicable, CSU, UC 54 hours lecture Prerequisite: MUS 3B, MUS 6A Corequisite: MUS 6B Further examination of the harmonic style of Western tonal music from the common practice period, with emphasis on 18th and 19th century repertoire. Topics include modal mixture, chromatic harmony, extended torizization, advanced modulation techniques, lieder, rondo and sonata form. Students will write analysis papers and compose original music in the harmonic and melodic style of Romantic models. Image: MUS 5A — Musicianship - Ear Training and Sight Singing 1.5 Units Sight Singing Degree Applicable, CSU, UC 18 hours lab Corequisite: MUS 2 Training in diatonic sight singing, rhythm reading, aural recognition and the dictation of rhythm and diatonic melody. Ability to read music and match pitch is advised. Required for music majors. Image: MUS 5B — Musicianship - Ear Training and Sight Singing 1 Unit Sight Singing Degree Applicable, CSU, UC 18 hours lab Prerequisite: MUS 5A Corequisite: MUS 5A Degree Applicable, CSU, UC 18 hours lab Prerequisite: MUS 5A Corequisite: MUS 5A Degree Applicable, CSU, UC 18 hours lab Degree Applicable, CSU, UC 18 h | MUS 6B — Musicianship - Advanced Degree Applicable, CSU, UC Degree Applicable, CSU Degree Applicable, CSU, UC Degree Applicable, CSU, | MUS 12 — History of Jazz 3 Units Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture Advisory: Eligibility for ENGL 68 A survey of jazz as a significant American art form from its roots in African and Creole music to the present. Major styles, leading performers, significant compositions and recordings, and the social, economic, and cultural contexts of the music will be stressed. MUS 13 — Introduction to Music Appreciation 3 Units Degree Applicable, CSU, UC 54 hours lecture 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. MUS 13H — Introduction to 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 134 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. |
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| | 54 hours lecture | The study of American folk music by both region and period. Instruction |

| MUS 15 — Rock Music History and Appreciation 3 Units Degree Applicable, CSU, UC (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 20A — Elementary Class Voice 1.5 Units Degree Applicable, CSU, UC 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. | MUS 24 — Advanced Guitar 1 Unit Degree Applicable, CSU, UC (May be taken four times for credit) 48 hours lab Advisory: MUS 23B Style, technique, and interpretation of guitar music of the 18th and 19th centuries. Includes sight reading and ensemble playing. Students must furnish their own acoustic guitars. |
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| MUS 16 — Individual Instruction .5 Unit Degree Applicable, CSU, UC (May be taken four times for credit) 32 hours lab <i>Prerequisite: Admission by audition</i> Applied music for students also enrolled in a major performing group. Instruction includes a private one-half hour lesson 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 20B — Intermediate Class Voice 1.5 Units Degree Applicable, CSU, UC 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. MUS 21 — Advanced Class Voice 1.5 Units | MUS 25A — Jazz Improvisation Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 48 hours lab Styles and techniques of jazz improvisation. Students must furnish their own musical instruments to play for and with the class. MUS 25B — Jazz Improvisation 1 Unit Degree Applicable, CSU, UC (May be taken four times for credit) |
| MUS 17A — Elementary Piano 1 Unit Degree Applicable, CSU, UC (May be taken four times for credit) 54 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. | Degree Applicable, CSU, UC 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. MUS 22 — Conducting 1.5 Units | (May be taken for option of letter grade or Pass/No Pass) 48 hours lab Advisory: MUS 25A Advanced techniques of jazz improvisation. Includes minor, dominant, and pentatonic scales along with arpeggiating polychords, altered chords, chord progressions, and 32-bar jazz standards. Students must furnish their instruments and be able to perform individually and with the class. Students who repeat this course will improve skills through further instruction and practice. |
| MUS 17B — Intermediate Class Piano 1.5 Units Degree Applicable, CSU, UC 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. | Degree Applicable, CSU 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. | MUS 27 — Chamber Winds Degree Applicable, CSU, UC (May be taken four times for credit) 72 hours lab Prerequisite: Admission by audition Select ensemble of wind and percussion instrumentalists specializing in the performance of high quality chamber music from the medieval |
| MUS 18 — Advanced Class Piano 1.5 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. Recommended for music majors. | Degree Applicable, CSU, UC (May be taken four times for credit) 48 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. MUS 23B — Intermediate Class Guitar 1.5 Units Degree Applicable, CSU, UC 18 hours lecture 18 hours lab Advisory: MUS 23A Techniques for reading and playing music arranged for the solo guitar. Students must furnish their own acoustic guitar. | period to the present. The course may include brass quintets, woodwind quintets, saxophone quartets, and mixed instrumental ensembles of two through twenty performers. Students must have previous instrumental experience and pass an entrance audition. Public performances on campus and in the community are required. Students who repeat this course will improve skills through further instruction and practice. |

| MUS 29 — Choral Workshop 1 Unit Degree Applicable, CSU, UC (May be taken four times for credit) 54 hours lab 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. Students who repeat this course will improve skills through further instruction and practice. Open to all students without an audition. 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 | MUS 34 — Women's Vocal Ensemble 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 lab Prerequisite: Admission by audition during the first week of class Women's vocal ensemble that studies and performs selected classical works, folk songs, spirituals, and popular compositions. Attendance is required at all public performances including off-campus locations. Students who repeat this course will improve skills through further instruction and practice. MUS 36 — Concert and Community Band 1.5 Units Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) | MUS 44 — Vocal Jazz Ensemble 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 Prerequisite: Admission by audition 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 |
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| 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 for option of letter grade or Pass/No Pass) 108 hours lab <i>Prerequisite: Admission by audition the first week of class</i> | Advisory: Previous band experience A non-auditioned wind and percussion ensemble open to all students with prior instrumental experience. A variety of wind band repertoire will be studied and performed, from music of the medieval period to contemporary compositions. Rehearsal time will also be devoted to instrumental and aural skills development. Opportunities to conduct, arrange and compose music, and perform as a soloist may be provided. Students who repeat this course will improve skills through further instruction and practice. Public performances on campus and in the community are required each semester. | (May be taken four times for credit) (May be taken four option of letter grade or Pass/No Pass) 162 hours lab <i>Prerequisite: Admission by audition</i> Premier mixed choral group, specializing in smaller ensemble 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. Off-campus performances are required. |
| A large mixed choral ensemble in which students perform a variety of major choral works. Classical songs are rehearsed in class and performed for a public audience. Sight singing skills and proper vocal technique are emphasized. Voice placement auditions are held the first week of class. Attendance at all performances including those off-site is required. Students who repeat this course will improve skills through further instruction and practice. | MUS 38 — Ensemble .5 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 hours lab <i>Prerequisite: Ability to read music or admission by audition</i> The study and performance of music written for small ensembles. On campus performances may be required. Students who repeat this course will improve skills through further instruction and practice. | MUS 46 — Mt. SAC Singers 1.5 Units Degree Applicable, CSU, UC (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 72 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 |
| Degree Applicable, CSU, UC (May be taken four times for credit) 54 hours lab <i>Prerequisite: Admission by audition during the first week of class</i> This Soprano, Alto, Tenor, Bass choir will perform major choral works ranging from the Baroque era to the 20th century. In addition to | MUS 39 — Laboratory Band 2 Units Degree Applicable, CSU (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 108 hours lab | variety of music performed publicly several times every semester. Emphasizes advanced musical skills, vocal technique, choreography and showmanship skills. Off campus performances may be required. Students who repeat this course will improve skills through further instruction and practice. |
| preparation and performance of quality choral literature from all genres, time will be spent on vocal development and music theory. Students who repeat this course will improve their skills through further instruction, practice, and knowledge of varied repertoire. | Prerequisite: Admission by audition 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 jazz skills and understanding. Students who repeat this course will improve skills through further instruction and practice. | MUS 47 — Jazz Band 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 lab <i>Prerequisite: Admission by audition</i> Study and performance of jazz and big band music. Provides an opportunity to learn techniques applicable to the large jazz ensemble. Off-campus public performance required. Students who repeat this course will improve skills through further instruction and practice. |

Section 10 179

| ■ MUS 48 — Men's Vocal Ensemble 2 Units Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 108 hours lab <i>Prerequisite: Admission by audition the first week of class</i> 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 99 — Special Projects in Music 1 to 3 Units Degree Applicable, CSU (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 | ■ NURS 3 — Medical-Surgical Nursing: 3.5 Units Locomotion/Sensation/ Integument/Oncolog Degree Applicable, CSU 30 hours lecture 108 hours lab <i>Prerequisite: NURS 1B and NURS 2 or Advanced Placement</i> 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. |
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| MUS 49 — Wind Ensemble 2 Units Degree Applicable, CSU, UC (May be taken four times for credit) 108 hours lab Prerequisite: Admission by audition The premier classical wind and percussion ensemble at the College. Students must have previous musical training, a standard band instrument and pass an entrance audition. A variety of wind band repertoire will be studied and performed, from music of the medieval resid the sustance public encoders. | ensure that proficiencies are enhanced. Projects must be approved in advance. NURSING NURS 1A — The Nursing Process I 5 Units Degree Applicable, CSU 45 hours lecture 135 hours lab Prerequisite: Admission to Nursing Program; ANAT 35 or equivalent and | 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. |
| period to contemporary composisions. Public performances on campus and in the community are required and a concert tour may be included. Opportunities to conduct, arrange and compose music, and perform as a solist may be provided to capable students. 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) | 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 | 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. |
| 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. INURS 1B — The Nursing Process II 5 Units Degree Applicable, CSU 45 hours lecture 135 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 | 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 7.5 Units Nursing: Nutrition/Elimination/Surgical Asepsis Degree Applicable, CSU |
| | electrolytes, spirituality, and nursing trends. The Betty Neuman Model serves as the conceptual framework. INURS 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. | 63 hours lecture 215 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. |

| NURS 8 — Medical-Surgical Nursing: Circulation 5.5 Units and Oxygenation Degree Applicable, CSU 45 hours lecture 167 hours lab Prerequisite: NURS 7 or Advanced Placement Corequisite: NURS 9 Concepts for nursing assessment and intervention with application to clients with cardiovascular and pulmonary problems. 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 7 or Advanced Placement Corequisite: NURS 7 or Advanced Placement Corequisite: NURS 7 Advanced Placement Sists 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. NURS 10 — Medical-Surgical 4 Units | NURS 70 — Role Transition 3 Units Degree Applicable (May be taken for Pass/No Pass only) 36 hours lecture 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 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. | NF 25H — Essentials of Nutrition - Honors Degree Applicable, CSU, UC 54 hours lecture Prerequisite: Acceptance into the Honors Program Scientific concepts of nutrition related to the function of nutrients in basic life processes with emphasis on current health issues; individual needs; functions and sources of nutrients; scientific method for analysis and evaluation of nutrition information; dietary guidelines and current nutrition recommendations; digestion, absorption and metabolism; health, fitness and disease; nutrition in the life span. An honors course designed to provide an enriched experience. Students may not receive credit for both NF 25 and NF 25H. NF 28 — Cultural and Ethnic Foods 3 Units Degree Applicable, CSU, UC 54 hours lecture Advisory: Eligibility for ENGL 68 Regional, ethnic, cultural, religious, historical and social influences on food patterns and cuisines. Core components: specialized equipment and utensils related to cultures; traditional foods of selected cultures; |
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| Interception Nursing: Integration/Regulation Degree Applicable, CSU 45 hours lecture 96 hours lab Prerequisite: NURS 8, NURS 9 or Advanced Placement Concepts of nursing assessment and intervention with application to clients with neurological and endocrine disorders. The Betty Neuman Model serves as the conceptual framework. Image: NURS 11 — Preceptorship in Nursing 2 Units Degree Applicable, CSU (May be taken for Pass/No Pass only) 112 hours lab Prerequisite: NURS 10 or Advanced Placement | 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. NF 20 — Principles of Foods with Lab Degree Applicable, CSU 36 hours lecture 54 hours lab | geographic factors in food availability; global food issues; sanitation and safety practices. INF 30 — Food Science Technologies 3 Units Degree Applicable, CSU 54 hours lecture Advisory: Eligibility for ENGL 68 Exploration of food chemistry, food processing and technology and how these affects the color, flavor, texture, aroma and quality of foods. Core components: government regulation of processing and labeling, sensory evaluation, scientific research methods, function of water in foods, pH and acidity, food processing technologies, nutritional labeling, packaging; dispersion systems, enzyme reactions, food additives, composition and properties of food. |
| 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 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. | 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. INF 25 — Essentials of Nutrition 3 Units Degree Applicable, CSU, UC 54 hours lecture <i>Prerequisite: Eligibility for ENGL 68</i> Scientific concepts of nutrition related to the function of nutrients in basic life processes with emphasis on current health issues; individual needs; functions and sources of nutrients; scientific method for analysis and evaluation of nutrition information; dietary guidelines and current nutrition 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 <i>Advisory: NF 20 or food preparation experience</i> 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. |

COURSE DESCRIPTIONS

| ■ NF 62 — Meal Management 3 Units Degree Applicable, CSU 36 hours lecture 54 hours lab <i>Advisory: NF 20 or equivalent food preparation experience</i> 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 | OCEA 10L — Introduction to Oceanography Laboratory 1 Unit Degree Applicable, CSU, UC 54 hours lab <i>Corequisite: OCEA 10 or OCEA 10H (May have been taken previously)</i> 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 Degree Applicable, CSU, UC 54 hours lecture <i>Prerequisite: Eligibility for ENGL 68</i> The analysis of language as an instrument of sound thinking in morals, politics and everyday life. Assists students to analyze an argument, | PHIL 8 — Critical Thinking 3 Units Degree Applicable, CSU, UC 54 hours lecture The 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 Writing 3 Units Degree Applicable, CSU, UC 54 hours lecture Prerequisite: ENGL 1A The function and use of formal and informal logic, argument, critical evaluation, and language in written composition. PHIL 12 — Ethics 3 Units Degree Applicable, CSU, UC 54 hours lecture |
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| 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 | 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. | 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. |
| 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. OCEANOGRAPHY OCEA 10 — Introduction to Oceanography 3 Units Degree Applicable, CSU, UC | ■ PHIL 3H — Logic in Practice - Honors 3 Units Degree Applicable, CSU, UC 54 hours lecture <i>Prerequisite: Acceptance into the Honors Program</i> 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. An honors course designed to provide an enriched experience. Students may not receive credit for both PHIL 3 and PHIL 3H. | PHIL 12H — Ethics - Honors 3 Units 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 |
| 54 hours lecture An introduction to the ocean environment including the geologic, chemical, physical, and ecological aspects of the field. Topics include plate tectonics, currents, waves, tides, shores and human impact on the oceans. Field trips included. | ■ PHIL 5 — Introduction to Philosophy 3 Units Degree Applicable, CSU, UC 54 hours lecture <i>Prerequisite: Eligibility for ENGL 68</i> An exploration of basic issues in ethics, social philosophy, metaphysics, theories of knowledge and contemporary philosophies of life. | Degree Applicable, CSU, UC 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 |
| ■ 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 college/university. Field trips are required. Students may not receive credit for both OCEA 10 and OCEA 10H. | PHIL 5H — Introduction to Philosophy - Honors 3 Units Degree Applicable, CSU, UC 54 hours lecture Prerequisite: Acceptance into the Honors Program An 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. | 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. |

| | | Course descriptions |
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| PHIL 15H — Major World Religions - Honors 3 Units Degree Applicable, CSU, UC 54 hours lecture Prerequisite: Acceptance into the Honors Program 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 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 Philosophy | PHOTOGRAPHY PHOT 1 — Laboratory Studies: Black and White Photography 1 Unit White Photography Degree Applicable (May be taken four times for credit) 0 (May be taken for Pass/No Pass only) 54 hours lab Corequisite: PHOT 10 (may have been taken previously) 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 4 — Digital Cameras and Composition 1 Unit | PHOT 14 — Commercial Lighting 3 Units Degree Applicable, CSU 36 hours lecture 54 hours lab Prerequisite: PHOT 10 Use of studio equipment, and studio and location lighting techniques used in all aspects of commercial photographic applications. Students must furnish adjustable Single Lens Reflex 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. |
| PHIL 20A — History of Western Philosophy 3 Units Degree Applicable, CSU, UC 54 hours lecture <i>Prerequisite:</i> > <i>Eligibility for ENGL 1A</i> Major western philosophers and philosophical ideas from pre-Socratic times to medieval times. | 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 16 — Fashion Photography 3 Units Degree Applicable 36 hours lecture 54 hours lab Prerequisite: PHOT 11 |
| ■ PHIL 20AH — History of Western Philosophy - Honors 3 Units Degree Applicable, CSU, UC 54 hours lecture Prerequisite: Acceptance into the Honors Program Major western philosophers and philosophical ideas from pre-Socratic to medieval times. An honors course is desgined to provide an enriched experience. Students may not receive credit for both PHIL 20A and PHIL 20AU | 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. | 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 36 hours lecture 72 hours lab |
| 20AH. PHIL 20B — History of Western Philosophy 3 Units Degree Applicable, CSU, UC 54 hours lecture Major western philosophy and philosophical ideas from the Renaissance to the present. | PHOT 11 — Advanced Professional Photography 4 Units Degree Applicable 36 hours lecture 108 hours lab Prerequisite: PHOT 10 Professional photographic techniques. Includes studio and field | Prerequisite: PHOT 10 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. ■ PHOT 18 — Portraiture and Wedding Photography 3 Units |
| PHIL 20BH — History of Western Philosophy - Honors 3 Units Degree Applicable, CSU 54 hours lecture Prerequisite: Acceptance into the Honors Program Major western philosophy and philosophical ideas from the Renaissance to the present. An honors course designed to provide an enriched experience. Students may not receive credit for both PHIL 20B and PHIL | assignments related to problems encountered while professionally photographing people and products. Topics include medium and large format film and digital cameras, computer basics for professional photographers and studio lighting. Students must furnish a digital single lens reflex (DSLR) camera. Field trips may be required. PHOT 12 — Photographic Alternatives 3 Units Degree Applicable, CSU, UC | Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture 54 hours lab Techniques and photographic procedures for taking informal, formal, environmental and group portraits. In depth study and practice in professional wedding photography. |
| 20BH. | 36 hours lecture 54 hours lab <i>Prerequisite: PHOT 10</i> 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 20 — Color 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 10</i> An introduction to current methods of producing color media, color negatives, positive transparencies, and outputting color prints. |

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| 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 contemporary techniques. Includes media manipulation and unique processing, coloring negatives, 8x10 Polaroid, digital imagery, specialized lighting, set building, and quality control. PHOT 25 — Digital Capture Workflow 3 Units Degree Applicable 36 hours lecture 54 hours lab Prerequisite: PHOT 11 Advanced application of digital capture and workflow using DSLR medium and large format digital capture and workflow using DSLR medium and large format digital capture and workflow using DSLR medium and large format digital files as a photographer or as a digital photographic technician. Field trips may be required. PHOT 28 — Photography Portfolio Development 3 Units Degree Applicable 36 hours lecture 54 hours lab Prerequisite: Minimum 12 units of photography at Mt. San Antonio College or equivalent preparation Development of a photography portfolio for job application or gallery exhibition purposes. PHOT 29 — Studio Business Practices for Commercial Artists Degree Applicable 54 hours lecture 54 hours lecture 54 uous lecture 54 hours lab PHOT 30 — Commercial and illustrative Photography 34 Units Degree Applicable 36 hours lecture 36 hours lecture<td>Degree Applicable (May be taken four times for credit) (May be taken for Pass/No Pass only) 75 to 225 hours lab Pre Provides students with on-the-job experience in professional photography and related areas in an approved worksite to strengthen and broaden skills in the workplace. A minimum of 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. PHOT 99 — Special Projects in Photography 2 Units Degree Applicable (May be taken four times for credit) 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 insure that proficiencies are enhanced. PHYSICAL EDUCATION: ADAPTIVE PHYSICAL EDUCATION: ADAPTIVE PHYSIC</td><td> PE-L 10 — Wheelchair Sports 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 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 this course will improve their skills through further instruction and practice. PE-L 14 — Activity Programs for the Physically .5 to 1 Unit Limited Degree Applicable, CSU, UC (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. 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 four times for credit) (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity Designed to assist students with a disability or limitation develop strength, endurance, flexibility, and physical fitness through weight training. Students who repeat this course will improve their muscular strength and endurance through further instruction and practice. PHYSICAL EDUCATION: AQUATICS PF-A 8A — Swimming - Beginning .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 Designed to teach basic swimming strokes and aquatic skills to individuals with little or no swimming strokes and aquatic skills to individuals with little or no swimming strokes and aquatic skills to individuals with little or no swimming strokes and aquatic skills to individuals with</td> | Degree Applicable (May be taken four times for credit) (May be taken for Pass/No Pass only) 75 to 225 hours lab Pre Provides students with on-the-job experience in professional photography and related areas in an approved worksite to strengthen and broaden skills in the workplace. A minimum of 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. PHOT 99 — Special Projects in Photography 2 Units Degree Applicable (May be taken four times for credit) 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 insure that proficiencies are enhanced. PHYSICAL EDUCATION: ADAPTIVE PHYSICAL EDUCATION: ADAPTIVE PHYSIC | PE-L 10 — Wheelchair Sports 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 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 this course will improve their skills through further instruction and practice. PE-L 14 — Activity Programs for the Physically .5 to 1 Unit Limited Degree Applicable, CSU, UC (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. 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 four times for credit) (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity Designed to assist students with a disability or limitation develop strength, endurance, flexibility, and physical fitness through weight training. Students who repeat this course will improve their muscular strength and endurance through further instruction and practice. PHYSICAL EDUCATION: AQUATICS PF-A 8A — Swimming - Beginning .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 Designed to teach basic swimming strokes and aquatic skills to individuals with little or no swimming strokes and aquatic skills to individuals with little or no swimming strokes and aquatic skills to individuals with little or no swimming strokes and aquatic skills to individuals with |
| 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. | 54 hours activity Designed to assist students with a disability or limitation to develop or improve swimming skills. Appropriate for swimmers and nonswimmers. Students who repeat this course will improve their 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 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. |

| PEA 8C — Swimming - Advanced Sto 1 Um, Degree Applicable (SU, UK) (May be taken for times for credit) May be taken for times for credit | | | • |
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| and practice. related to the sport of cross country. Students who repeat this course will improve skills through further instruction and practice. the sport of soccer. Students who repeat this course will improve skills through further instruction and practice. | Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity Prerequisite: Demonstrate proficiency equivalent to Red Cross Level IV Swimming Test Designed to offer aquatic techniques of an advanced level and to refine the skill of the competent swimmer. Students who repeat this course will improve skills through further instruction and practice. PE-A 14 — Water Polo S to 1 Unit (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 18 — Springboard Diving .5 to 1 Unit Degree Applicable, CSU, UC (May be taken four times for credit) (May be ta | 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 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 PE-X 6 — Baseball - Men .5 to 3.5 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) 36 to 180 hours activity Intended for Men's Intercollegiate Baseball Team candidates to provide instruction in the components of training and conditioning related to the sport of baseball. Students who repeat this course will improve skills through further instruction and practice. PE-X 8 — Basketball - Men .5 to 3.5 Units Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 36 to 180 hours activity Intended for Men's Intercollegiate Baseball 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 10 — Basketball - Women .5 to 3.5 Units Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 36 to 180 hours activity Intended for Women'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 10 — Basketball - Women .5 to 3.5 Units Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 36 to 180 hours activity Intended for Women's Intercollegiate Basketball team candidates to provide instruction in the components of training and conditioning related to the | Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 36 to 180 hours activity Intended for Women's Intercollegiate Cross Country team candidates to provide instruction in the components of training and conditioning related to the sport of cross country. Students who repeat this course will improve skills through further instruction and practice. PE-X 16 — Football - Men .5 to 3.5 Units Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 36 to 180 hours activity Intended for Men's Intercollegiate Football Team candidates to provide instruction in the components of training and conditioning related to the sport of football. Students who repeat this course will improve skills through further instruction and practice. PE-X 18 — Golf - Men .5 to 3.5 Units Degree Applicable, CSU, UC (May be taken foor option of letter grade or Pass/No Pass) 36 to 180 hours activity Designed for Men's Intercollegiate Golf Team candidates and provides instruction in the components and training related to the sport of golf. (Lasses will be held off campus and require some traveling. Students who repeat this course will improve skills through further instruction and practice. Students must have their own golf clubs. PE-X 19 — Golf - Women .5 to 3.5 Units Degree Applicable, CSU, UC (May be taken foor times for credit) (May be taken for option of letter grade or Pass/No Pass) 36 to 180 hours activity Intended for Women's Intercollegiate Golf Team candidates to provide instruction in the components and training related to the sport of golf. Classes will be held off campus and require some traveling. Students who repeat this course will improve skills through further instruction and practice. Students must have their own golf clubs. PE-X 24 — Soccer - Men .5 to 3.5 Units Degree Applicable, CSU, UC (May be taken foor times for credit) (May be taken for option of letter grade or Pass/No Pass) 36 to 180 hours activity Intended for Men's Intercollegiate Soccer T |

Section 10 185

| PE-X 25 — Soccer - Women .5 to 3.5 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 180 hours activity Intended for Women's Intercollegiate Soccer Team candidates to provides instruction in the components of training and conditioning related to the sport of soccer. Students who repeat this course will improve skills through further instruction and practice. PE-X 26 — Softball - Women .5 to 3.5 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 180 hours activity Intended for Women's Softball Team candidates to provide instruction in the components of training and conditioning related to the sport of softball. Students who repeat this course will improve skills through further instruction and practice. PE-X 28 — Swimming - Men .5 to 3.5 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 for option of letter grade or Pass/No Pass) 36 to 380 hours activity Intended for the Men's Intercollegiate Swim Team candidates to provide instruction in the components of training and conditioning related to the sport of swimming. Students who repeat this course will improve skills through further instruction and practice. PE-X 30 — Swimming - Women .5 to 3.5 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 for option of letter grade or Pass/No Pass) 36 to 180 hours activity Intended for Women's Intercollegiate Swim Team candidates and to provid | PE-X 34 — Tennis - Women .5 to 3.5 Units Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 36 to 180 hours activity Intended for Women's Intercollegiate Tennis Team candidates to provide instruction in the sport of tennis. Students who repeat this course will improve skills through further instruction and practice. PE-X 38 — Track and Field - Men .5 to 3.5 Units Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 36 to 180 hours activity Intended for Men's Intercollegiate Track and Field team candidates to provide instruction in the components of training and conditioning related to the sport of track and field. Students who repeat this course will improve skills through further instruction and practice. PE-X 42 — Track and Field - Women .5 to 3.5 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) 36 to 180 hours activity Intended for Women's Intercollegiate Track and Field Team candidates to provide instruction in the components of training and conditioning related to the sport of track and field. Students who repeat this course will improve skills through further instruction and practice. PE-X 44 — Volleyball - Men .5 to 3.5 Units Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 36 to 180 hours activity Intended for Men's Intercollegiate Volleyball Team candidates to provide instruction in the components of training and conditioning related to the sport of track and field. Students who repeat this course will improve skills through fur | PE-X 48 — Water Polo - Men S to 3.5 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 180 hours activity Intended for Men's Intercollegiate Water Polo Team candidates to provide instruction in the components of training and conditioning related to the sport of water polo. Students who repeat this course will improve skills through further instruction and practice. PE-X 49 — Water Polo - Women |
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| ■ PE-X 32 — Tennis - Men .5 to 3.5 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 180 hours activity Intended for Men's Intercollegiate Tennis Team candidates to provide instruction in the sport of tennis. Students who repeat this course will improve skills through further instruction and practice. | PE-X 46 — Volleyball - Women .5 to 3.5 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 180 hours activity Intended for Women's Intercollegiate Volleyball Team candidates to provide instruction in the components of training and conditioning related to the sport of volleyball. Students who repeat this course will improve skills through further instruction and practice. | ■ PE-X 88 — Pre-Season Athletics .5 to 3.5 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 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 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 3.5 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 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 | 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 Develops components of physical fitness. Students analyze 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. PE-F 6C — Physical Fitness - Advanced .5 to 1 Unit Degree Applicable, CSU, UC | ■ PE-F 13 — Exercise Dynamics 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 Increased frequency and body conditioning with increased frequency and duration of circuit training and aerobic activity; continued overview of health concepts; heightened emphasis on nutrition, weight management, stress reduction and the benefit of exercise on overall health. Students who repeat this course will improve skills through further instruction and practice. |
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| ■ PE-F 2A — Body Building - Beginning | (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity Determines advanced components of physical fitness. Students integrate 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. PE-F 9 — Conditioning for Sports .5 to 1 Unit | ■ PE-F 17 — Fitness Walking .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 Fitness walking, a low-impact aerobic activity, as part of an overall wellness program. The class walks on courses around Mt. San Antonio College and the surrounding community. Includes nutrition, personal chill dovelopment weight management cardiovacular endurance stress |
| ■ PE-F 2B — Body Building - 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 Advanced strength development and physical conditioning. 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 A conditioning course for students and athletes to develop muscular strength and endurance, flexibility, core training skills and respiratory fitness. Students who repeat this course will improve skills through further instruction and practice. | skill development, weight management, cardiovascular endurance, stress management, and goal setting. Students who repeat this course will improve skills through further instruction and practice. PE-F 18 — Fitness Fundamentals 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 |
| PE-F 4 — Cardiovascular Conditioning .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 fitness levels through cardiovascular activities. 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 for option of letter grade or Pass/No Pass) 36 to 54 hours activity A muscular conditioning program using machines and free weights. Students who repeat this course will improve skills through further instruction and practice. | 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 Degree Applicable, CSU, UC (May be taken four times for credit) |
| ■ PE-F 6A — Physical Fitness - 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 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. | PE-F 12 — Fitness and Body Conditioning .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 Circuit training, aerobic activity and overview of health concepts. Emphasis on nutrition, weight management, stress reduction and the benefits of exercise on overall health. Students who repeat this course will improve skills through further instruction and practice. | (May be taken for option of letter grade or Pass/No Pass) 108 hours activity Designed for students concentrating on strength development through various types of exercise. Students who repeat this course will improve skills through further instruction and practice. |

| PE-F 22 — Total Fitness 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 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 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 lab Body core training and foundation movement for students interested in improving their fitness level. Students who repeat this class will improve with continued practice and instruction. | PE-F 50 — Physical Skills Preparation for Administration 2 Units of Justice and Fire Technology | PE-F 59 — Firefighter Physical Ability Test INOT 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 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. 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: |
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| PE-F 34 — Cardiorespiratory Training 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 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 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 Muscular strength and endurance exercise on circuit training equipment. Students who repeat this course will improve skills through further instruction and practice. | and fire agencies. Students who repeat this course will improve skills through further instruction and practice. PE-F 52 — Fitness and Conditioning for Administration of Justice, Fire Technology, and Forestry | PE-14A, PE-14B, PE-14C PE-18A, PE-18B, PE-18C PE-127A, PE-127B PE-130A, PE-130B PE-131A, PE-131B PE-137A, PE-137B, PE-137C PE-14A — Badminton - 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 Beginning badminton fundamentals and techniques, including singles and doubles play. Students who repeat this course will improve their skills through further instruction and practice. |
| Image: Construction and proceeding | Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 133 hours activity Prepares the Basic Fire Academy student for the physical demands of the fire service. Through a supervised individualized training program, the student acquires cardiovascular endurance, flexibility and strength. Students who repeat this course will improve skills through further instruction and practice. | ■ PE-I 4B — Badminton - Intermediate .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 badminton techniques, including singles and doubles play. 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 badminton techniques, including singles and doubles tournament play. Students who repeat this course will improve their skills through further instruction and practice. PE-I 18A — Golf - Beginning .5 to 1 Unit (May be taken four times for credit) (May be taken four times for credit) (May be taken four times 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 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 for option of letter grade or Pass/No Pass) 36 to 54 hours activity Instruction for the golfer with previous golf experience. Includes putting, game management, club selection, and principles of the swing. Students must have their own golf clubs. Classes will be held at sites both on and off the Mt. SAC campus. 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) (May b | PE-1 27A — Jeet Kune Do - Beginning Degree Applicable, CSU, UC Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 36 to 54 hours activity Fundamentals and principles of Bruce Lee's martial art. Emphasis on footwork, distance, and technique for combat efficiency in self-defense. Students who repeat this course will improve proficiency as a result of continued instruction and practice. PE-1 27B — Jeet Kune Do - Intermediate | PF-131A — Jiujitsu - 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 Fundamentals of Brazilian Jiujitsu. Basic positions, breakfalls, training techniques, strategy, finishing holds, competition, history and philosophy. Students who repeat this course will improve skills through further instruction and practice. Students are required to provide their own Judo/Jiujitsu i uniform. PF-131B — Jiujitsu - Intermediate .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 Intermediate Brazilian Jiujitsu. Progressions in positions, break-falls, training techniques, strategy, finishing holds, competition and philosophy. Students who repeat this course will improve their skills through further instruction and practice. Students are required to provide their own Judo/Jiujitsu gi uniform. PF-133 — Kickboxing S 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 four times for credit) Extended the contractive skills through further instruction and practice. (May be taken four times for credit) Extended the contract |
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| ■ PE-I 37A — Tai Chi Chuan - Beginning .5 to 1 Unit | ■ PE-I 44 — Track and Field .5 to 1 Unit | ■ PE-S 2 — Basketball .5 to 1 Unit |
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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) 36 to 54 hours activity Fundamentals of tai chi chuan as a martial art exercise for health and fitness, meditation, relaxation and self defense. Basic therapeutic exercises in the tai chi chuan format will be presented. Students who | 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. | 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. |
| repeat this course will improve skills through further instruction and practice. PE-I 37B — Tai Chi Chuan - 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 | ■ 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 | ■ PE-S 10 — 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 Soccer skills, fundamentals and game play. Students who repeat this course will improve skills through further instruction and practice. |
| Intermediate tai chi chuan fundamentals and principles. Includes instruction in a traditional long form. Students who repeat this course will improve skills through further instruction and practice. PE-I 37C — Tai Chi Chuan - Advanced .5 to 1 Unit Degree Applicable, CSU, UC | practice. PE-I 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) | PE-S 12 — Baseball .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 |
| (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 and practice for the experienced tai chi chuan practitioner. Emphasis will be on the sword form. Students who repeat this course | 36 to 54 hours activity Yoga instruction with emphasis on yoga postures, breathing techniques, relaxation strategies and philosophy. Students who repeat this course will improve their skills through further instruction and practice. Image: PE-I 51 — Iyengar Yoga .5 to 1 Unit | Basic skills, rules and strategies for team play in baseball. Students who repeat this course will improve skills through further instruction and practice. PE-S 13 — Football .5 to 1 Unit Degree Applicable, CSU, UC |
| will improve skills through further instruction and practice. PE-I 40A — Tennis - 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 Beginning tennis fundamentals and techniques. Students who repeat | 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 Iyengar yoga. Basic postures, alignments, strategy, history and philosophy. Students who repeat this course will improve their skills through further 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 Basic skills, rules and strategies for team play in football. Students who repeat this course will improve skills through further instruction and practice. |
| this course will improve skills through further instruction and practice. PE-I 40B — Tennis - Intermediate .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 tennis techniques and strategies for the individual who has previous experience and instruction in tennis. Students who repeat this course will improve skills through further instruction and practice. | PE-I 52 — Individual Sports .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 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. | PE-S 16 — Softball .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 the sport of slowpitch softball. Students who repeat this course will improve skills through further instruction and practice. PE-S 18 — Indoor Soccer .5 to 1 Unit |
| 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 activity Advanced tennis techniques and strategies for the experienced player. Students who repeat this course will improve skills through further instruction and practice. 2011-12 Mt. San Antonio College Catalog | 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 | 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 for option of letter grade or Pass/No Pass) 36 to 54 hours activity Basic techniques and strategies of volleyball. Students who repeat this course will improve skills through further instruction and practice. PE-S 24B — Volleyball - Intermediate .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 Basic techniques and strategies of volleyball. Students who repeat this course will improve skills through further instruction and practice. PE-S 24B — Volleyball - Intermediate .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 Designed for individuals with previous experience in techniques and strategies of volleyball. Students who repeat this course will improve 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 techniques and strategies of volleyball. Advanced .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 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. | 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 13 — Sports Officiating 3 Units Degree Applicable, CSU, UC 54 hours lecture Introduction to rules, regulations and career opportunities of various team and individual sports. PE 15 — Administration of Fitness Programs Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture Provides leadership training and administrative skills related to fitness specialists, personal trainers and physical educators. Students will explore curriculum topics and practical skills related to careers in fitness and physical education. | PE 24 — Kinesiology 2 Unit: Degree Applicable, CSU (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 and Healthy Lifestyles .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 Survey and analysis of the components of fitness. Effects of fitness on optimal health, concepts of human movement, fitness program design, stress management, nutrition and weight control. PE 38 — Physiology of Exercise for Fitness Degree Applicable 4 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 Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture |
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| 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. PHYSICAL EDUCATION: THEORY PE 3 — First Aid and CPR 3 Units | specialists, personal trainers and physical educators. Students will explore curriculum topics and practical skills related to careers in fitness | Degree Applicable, CS (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture Theory and technique of performing fitness testing, assessment, evaluation, and recommendation. Includes related laboratory experience and practical applications. |
| Degree Applicable, CSU, UC 54 hours lecture <i>Advisory: Eligibility for ENGL 68</i> 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. | Introduction and orientation to physical education as a profession and academic discipline. Explores sub-disciplines, opportunities in the field, philosophy, scientific basis and analysis. PE 19 — Introduction to Care/Prevention 3 Units of Activity/Sports-Related Injuries Degree Applicable, CSU, UC 54 hours lecture 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 40 — Techniques of Teaching 2 Unit Cardiovascular Exercise Degree Applicabl (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 Degree Applicable (May be taken for option of letter grade or Pass/No Pass) Overview of the principles and techniques of teaching sequences, fee weight and machine equipment, safety factors, including contraindications for exercise. PE 44 — Theory of Coaching Buttit Degree Applicable, CSU, UD S4 hours lecture Degree Applicable, CSU, UD S4 hours lattit provides fitness and problems facing the coach coaches at varying levels from youth league to high school varity. Focuses on coaching issues and problems facing the coach coady and includes the philosophy, theory, and principles of developing and maintaining an athetic program. PE 48 — Lifeguard Training Degree Applicable, CSU, UD S4 hours lecture Prerequiste: Ability to swim 500 yards without stopping American Red Cross requirements for Lifeguard Training. To receive Prerequiste: Ability to swim 500 yards without stopping American Red Cross requirements for Lifeguard Training. To receive Prerequiste: Ability to swim 500 yards without stopping American Red Cross requirements for Lifeguard Training. To receive prerequiste: Ability to swim 500 yards without stopping American Red Cross requirements for Lifeguard Training. To receive retrification and the the hours per week be equally distributed for each unit of credit. It is recommended with the hours per week be equally distributed for each unit of credit. It is recommended with the hours per week be equally distributed for ach unit of credit. It is recommended with the hours per week be equally distributed for ach unit of credit. It is recommended with the hours per week be equally distributed for ach unit of credit. It is recommended with the hours per week be equally distributed for ach unit of credit. It is recommended with the hours per week be equally distributed for ach unit of credit. It is recommended w |
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| qualifications will be certified by the American Red (ross in Lifeguard Training, First Aid and C.P.R for the Professional Rescuer. I Unit assistance is provided by the Athetic Trainer faculty and staff. Students who repeat this course will improve skills through further instruction and practice. Intrivi- meta statistance is provided by the Athetic Trainer faculty and staff. Students who repeat this course will improve skills through further instruction and practice. Intrivi- meta statistance is provided by the Athetic Trainer faculty and staff. Students who repeat this course will improve skills through further instruction and practice. P F 50 — ML: SAC Fire Academy Physical Physical ability examination specifically designed for candidates seeking admission into the ML: SAC Fire Academy. Candidates must be approved by the Fire Technology Office prior to registration. PHYS1 — Physica I Unit Physical ability examination specifically designed for candidates seeking by the Fire Technology Office prior to registration. PHYS1 — Physica I Unit Physical ability examination specifically designed for candidates must be approved with the atekn four times for credit (May be taken four option of letter grade or Pass/No Pass) 150 hours lab I PHS 1 — Physica I HSC 7 — Physical Science Provides to above the construction. A minimum of 5 hours per week of supervised work (minimum 75 paid of 0 non-paid dock hours per semestre is required for each unit of required! I PHSC 1 — Physical Science I Unit begree Applicable, CSU, Curse topics will include: fossils fuels, nuclear energy, hydro, wind, solar required. Conceptual approxed workking certificate faculty advisor. Students who repeat this course will improve skills through further instr |

| PHYS 2BG — General Physics 4 Units | PHYS 99 — Special Projects in Physics 2 Units Units | |
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| Degree Applicable, CSU, UC 54 hours lecture 54 hours lab <i>Prerequisite: PHYS 2AG or equivalent</i> A continuation of Physics 2AG. Includes electricity and magnetism (including DC and AC circuits,) geometrical and physical optics, relativity, quantum physics, atomic and nuclear physics. Laboratory includes use of computers to analyze data and simulate electric circuits. | Degree Applicable, CSU (May be taken four times for credit) 36 hours lecture <i>Corequisite: PHYS 1 or PHYS 2AG or PHYS 4A (may have been taken</i> <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 | to Contemporary Degree Applicable, CSU, U 54 hours lecture <i>Prerequisite: POLI 5</i> Major political philosophers and theories from the late nineteenth century to the present. Intended to prepare students majoring in political science for further study in the discipline by providing adequate background preparation in political philosophy. |
| ■ PHYS 4A — Engineering Physics 5 Units Degree Applicable, CSU, UC 72 hours lecture 54 hours lab <i>Prerequisite: PHYS 2AG</i> <i>Corequisite: MATH 181 (may have been taken previously)</i> Studies linear and rotational motion, forces, work, energy, oscillations, gravitation, properties of solids, and waves. Includes laboratory experience, with significant use of computers for data acquisition and analysis. | 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. POLITICAL SCIENCE POLIT — Political Science 3 Units Degree Applicable, CSU, UC 54 hours lecture | POLI 9 — Introduction to International Relations 3 Unit Degree Applicable, CSU, U 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. POLI 10 — Environmental Politics 3 Unit Degree Applicable, CSU, U |
| ■ PHYS 4B — Engineering Physics 5 Units Degree Applicable, CSU, UC 72 hours lecture 54 hours lab Prerequisite: PHYS 4A | 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. | 54 hours lecture Prerequisite: POLI 1 or POLI 1H Advisory: Eligibility for ENGL 1A Global environmental problems including an analysis of political theories and comparative policies in the emerging field of environmental politics. |
| Corequisite: MATH 280 (may have been taken previously) Heat, kinetic theory of gases, thermodynamics, electromagnetism (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 | ■ POLI 1H — Political Science - Honors 3 Units 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 | ■ POLI 25 — Politics of the Mexican American 3 Unit Degree Applicable, CSU, U 54 hours lecture <i>Advisory: Eligibility for ENGL 68</i> Studies the impact that national, state and local governments have on the nation's largest ethnic minority (the Latino Community). Examines |
| Degree Applicable, CSU, UC 72 hours lecture 54 hours lab <i>Prerequisite: PHYS 4B</i> Fluids, sound, electromagnetic waves, optics, diffraction and interference | 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 POLI 1 and POLI 1H. | 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. |
| of waves, relativity, quantum physics, atomic and nuclear structure, nuclear reactions and elementary particles. Laboratory includes significant use of computers for data analysis. | 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 30 — California State and Local Government 3 Unit: 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 5 — Political Theory I - Ancient to Modern 3 Units Degree Applicable, CSU, UC 54 hours lecture Prerequisite: POLI 1 or POLI 1H Advisory: Eligibility for ENGL 1A Anient to modern (mid-19th century) theories of political institutions, social change and social dynamics. | |

COURSE DESCRIPTIONS

| POLI 35 — African American Politics 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 PSYC 1A — Introduction to Psychology 3 Units | PSYC 3 — Introduction to Research Methods 4 Units in Psychology Degree Applicable, CSU, UC 54 hours lecture 54 hours lab Prerequisite: PSYC 1A or PSYC 1AH and PSYC 10 or MATH 110 or MATH 110H Advisory: ENGL 1A Research methods in the area of social science, especially in the discipline of psychology. American Psychological Association (APA) publication style taught and used with lab experience. Includes systematic observation, survey development, correlational studies, and | PSYC 15 — Introduction to Child Psychology 3 Units Degree Applicable, CSU 54 hours lecture Advisory: Eligibility for ENGL 68 Examines the psychology of the child from conception through adolescence. Emphasis on physical, cognitive, and psychosocial development as it pertains to the child?s psychological experiences. Includes psychological disorders and therapies specific to children and adolescents. This course does not fulfill Title 22 requirement for child development majors. PSYC 17 — Introduction to Human Services 3 Units Degree Applicable, CSU |
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| Degree Applicable, CSU, UC 54 hours lecture <i>Prerequisite: Eligibility for ENGL 68</i> Develops an understanding of the basic principles of behavior and mental processes. The subject matter and research methods of scientific psychology are presented. Topics include; history, biopsychology, sensation, perception, states of consciousness, learning, memory, | design, execution and analysis of experiments. PSYC 5 — Psychology of Reasoning and Problem Solving 3 Units Degree Applicable, CSU 54 hours lecture The nature of critical thinking; models and strategies; common fallacies of reasoning; self-regulation in the thinking process; application of critical thinking to specific areas, such as comparison of cognitive and | 54 hours lecture Advisory: PSYC 1A or PSYC 1AH or SOC 1 or SOC 1H History, philosophy and development of human services in America. Explores careers in human services, self-exploration in matching personal and professional interests to entry levels of human services employment. |
| forgetting, language, cognition, life-span development, gender, sexuality, stress, health, motivation, emotions, social psychology, abnormality, treatment and social and diversity issues. PSYC 1AH — Introduction to Psychology - Honors 3 Units Degree Applicable, CSU, UC 54 hours lecture Prerequisite: Acceptance into the Honors Program | information-processing models; more specifically: memory, thinking and problem solving, creativity, learning and forgetting, decision making and reasoning. PSYC 10 — Statistics for the Behavioral Sciences 4 Units Degree Applicable, CSU, UC 54 hours lecture 54 hours lab | PSYC 19 — Abnormal Psychology 3 Units Degree Applicable, CSU, UC 54 hours lecture Prerequisite: PSYC 1A or PSYC 1AH Application of principles of general psychology to the field of psychopathology. Major classifications of psychiatric disorders, their causes and treatment modalities. Includes theoretical perspectives used in abnormal psychology. |
| Develops an understanding of the basic principles underlying behavior and cognition. The subject matter and methods of scientific psychology are presented. Topics include scientific methodology, history, biopsychology, sensation, perception, states of consciousness, learning, memory, forgetting, language, cognition, intelligence, life-span development, personality, stress, health, motivation, emotions, psychopathology, psychotherapeutic approaches, and social factors. An honors course designed to provide an enriched experience. Students may not receive credit for both PSYC 1A and PSYC 1AH. | Prerequisite: PSYC 1A or SOC 1 and eligibility for MATH 110 Statistical principles of the behavioral sciences emphasizing research design, scales of measurement, distributions, graphing, descriptive statistics, measures of central tendency, measures of variability, z-test, independent and dependent t-tests, inferential statistics, confidence intervals, linear correlations and regression, and analysis of variance, including multivariate factorial designs and chi square analyses. Statistical analyses through the use of computerized statistical packages are interpreted through lab experience. | PSYC 25 — The Psychology of Women 3 Units: Degree Applicable, CSU, UC 54 hours lecture Advisory: PSYC 1A and ENGL 1A (taken prior or concurrently) A bio-cultural analysis of women. Emphasis will be placed on biological, psychological and sociological data related to principles of development socialization, learning, motivation, emotion and perception. |
| ■ PSYC 1B — Biological Psychology 3 Units Degree Applicable, CSU, UC 54 hours lecture Prerequisite: PSYC 1A or PSYC 1AH Advisory: Eligibility for ENGL 1A Biological mechanisms of behavior; introduction of evolution and genetics with emphasis on neuronal and synaptic transmission. Develops a conceptual framework and awareness of the scientific method. Stresses specific methods of investigation for the discipline. | PSYC 14 — Developmental Psychology 3 Units Degree Applicable, CSU, UC 54 hours lecture Advisory: Eligibility for ENGL 1A Examines the psychological principles of human development across the lifespan, from birth to death. This course does not fulfill the Title 22 requirements for Child Development majors. | ■ PSYC 26 — Psychology of Sexuality 3 Units Degree Applicable, CSU, UC 54 hours lecture Prerequisite: Eligibility for ENGL 68 Explores the factors involved in establishing and maintaining intimate sexual relationships. The focus of the course is on the findings of social psychologists concerning sexuality and love relationships in our culture. |
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| ■ PSYC 33 — Psychology for Effective Living 3 Units Degree Applicable, CSU 54 hours lecture Emphasis on comprehension and application of psychological principles to interpersonal relationships, personal growth, sexuality, vocation, marriage, parenting, aging, and other circumstances encountered in the life cycle. Considers personality development and psychological disorders as well as therapeutic approaches. | R-TV 02A — On-Air Personality 3 Units Development-Spanish Market Degree Applicable S4 hours lecture Corequisite: R-TV 01 and R-TV 11A (may have been taken previously) 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 | R-TV 06 — Broadcast Traffic Reporting 1.5 Units Degree Applicable 27 hours lecture <i>Corequisite: R-TV 01 (may have been taken previously)</i> History and development of techniques involved in radio and television traffic reporting through lecture and hands-on practice. Interpretation and reading of police codes as they relate to traffic, accidents, and emergency situations including broadcast rules and liabilities as they apply to traffic reporting. Emphasis on both production and delivery of |
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| ■ PSYC 99 — Special Projects in Psychology 2 Units Degree Applicable, CSU (May be taken four times for credit) 36 hours lecture To offer selected students recognition for their academic interest and ability and the opportunity to explore their disciplines to greater depth, the various departments offer Special Project 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 | 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 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 | anchored and airborne reports. R-TV 07A — Beginning Commercial Voice-Overs 3 Units 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. |
| repeating this course will make individual contracts of a more advanced nature with the instructor to ensure that proficiencies are enhanced. RADIO - TELEVISION R-TV 01 — Introduction to Broadcasting 3 Units Degree Applicable, CSU 54 hours lecture <i>Prerequisite: Eligibility for ENGL 68</i> | 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 07B — Advanced Commercial Voice-Overs 3 Units Degree Applicable 36 hours lecture 54 hours lab <i>Prerequisite: R-TV 07A</i> Instruction in advanced techniques used in the art of voicing for radio and TV commercials, animation and narration. Further development of audition and recording coscien skille |
| Survey course of the film and electronic media industries, concentrating on the United States. This includes cultural, historical, social, legal and economic issues in motion pictures, radio and television broadcasting, cable, satellite, internet and related technologies. R-TV 02 — On-Air Personality Development S4 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 | Degree Applicable 54 hours lecture Corequisite: R-TV 01, R-TV 05, and R-TV 11A (May have been taken previously.) Techniques used to research and cover a variety of news events including working with police and other emergency personnel, interviewing techniques and story developments. Emphasis will be placed on legal and ethical issues concerning news coverage. III R-TV 05 — Radio-TV Newswriting 3 Units | audition and recording session skills. 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> Strategies and legalities of advertising time sales for radio and television including Federal Communications Commission (FCC) requirements, demographic targeting, marketing strategies, and working with agencies. Includes creation of contests and promotional campaigns. |
| 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. | Degree Applicable 54 hours lecture Writing, editing and reporting radio and TV news, utilizing the Associated Press Wire Service, AP Newsboss software. Students will rewrite news wire copy as well as create stories from interviews and from covering news events, including the incorporation and selection of sound bites from actualities. Emphasis will be on factual and concise content and the ability to work under deadline. | 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> Overview of various techniques of programming a radio station, including various formats of music, news, talk and sports. Role of management at a station including budgeting, unions, ratings and Federal Communications Commission (FCC) responsibilities. |

| R-TV 11A — Beginning Radio Production 3 Units Degree Applicable, CSU 54 hours lecture Corequisite: R-TV 01 (may have been taken previously) Operation of standard radio production equipment for both tape-based | Degree Applicable 54 hours lecture <i>Corequisite: R-TV 01 and R-TV 11A (may have been taken previously)</i> Covers all aspects of Internet broadcasting and podcasting including | ■ R-TV 22 — Editing for Film and Television 3 Units Degree Applicable 54 hours lecture Aesthetics and use of non-linear editing software for film and television. |
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| and digital production utilizing ProTools technology. Production skills concentrate on the use of voice, music and sound effects as applied to a variety of broadcasting elements. | programming, announcing, promotions, and legal and copyright issues through the use of an actual Internet radio station. R-TV 18 — Writing for Television and Film 3 Units | R-TV 23 — Reality Show Production 3 Units Degree Applicable 36 hours lecture |
| ■ R-TV 11B — Advanced Radio Production 3 Units Degree Applicable, CSU 54 hours lecture <i>Prerequisite: R-TV 11A</i> Techniques in non-linear recording, editing and mixing using Pro Tools technology as these skills apply to a variety of applications in the broadcasting industry. Develop mastery of the concepts and skills | Characterization, visualization, structure and form in various types of writing for television and motion picture production. R-TV 19A — Beginning Video Production 3 Units | 54 hours lab <i>Prerequisite: R-TV 19A</i> Types and production of Reality Show television programs. Authoring and pitching of reality show concepts. Instruction in specific equipment skills in lighting, wireless multicamera shooting, editing and related skills. Includes production of a reality show. |
| required to work in a professional radio studio environment. R-TV 12 — Commercial Copywriting 3 Units Degree Applicable 54 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, | Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture | ■ R-TV 26 — Current Issues in Entertainment Law 3 Units Degree Applicable 54 hours lecture <i>Advisory: R-TV 01 or PLGL 30</i> 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. |
| commercial formats, and the use of visual and audio appeals. R-TV 14 — Media Aesthetics 3 Units Degree Applicable, CSU 54 hours lecture <i>Prerequisite: ENGL 67</i> Media aesthetics for television and film presentation. Stresses critical, | R-TV 19B — Advanced Video Production 3 Units Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture 54 hours lab Prerequisite: R-TV 18 and R-TV 19A | ■ R-TV 30 — Introduction to Careers in Entertainment 2 Units 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 as D-J, news anchor/reporter, sports reporter, commercial voice-over artist, production director, writer, producer and director. |
| 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. | Video production techniques emphasizing narrative storytelling, film- style aesthetics and production. R-TV 20 — Television News Production 3 Units Degree Applicable | |
| ■ R-TV 15 — Broadcast Business Practices 3 Units Degree Applicable 54 hours lecture <i>Corequisite: R-TV 01 (may have been taken previously)</i> Radio and television industry as a business for profit. Basic techniques in negotiating with station management and agents as well as dealing with contracts, residuals, re-use rights, mergers, protection of | 36 hours lecture 54 hours lab <i>Prerequisite: R-TV 05 or R-TV 19A</i> TV newscast production using writing, announcing, production, equipment, direction, graphics, and editing skills both in and out of the studio. | disc jockeys in broadcasting history. R-TV 32 — Radio - TV Internet Applications 3 Units Degree Applicable 54 hours lecture Creating and managing material on radio, TV and movie websites such as cross-promoting on-air content and converting audio and video. |
| intellectual properties, union representation and Federal Communications Commission (FCC) law. Professional ethics and broadcasters' responsibilities to their audiences are also discussed. | ■ R-TV 21 — Remote Television Production and Engineering 3 Units Degree Applicable 36 hours lecture 54 hours lab <i>Prerequisite: R-TV 19A</i> 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 33 — Radio Show Producer Techniques 3 Units and Procedures Degree Applicable 54 hours lecture <i>Corequisite: R-TV 01 (May have been taken previously.)</i> 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. |

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| R-TV 34 — On-Camera Performance 1.5 Units Degree Applicable 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 96 — Campus Radio Station Lab 1 to 2 Units Degree Applicable (May be taken four times for credit) | Degree Applicable (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 | RAD 32 — Digital Imaging in Radiology 2 Units Degree Applicable 36 hours lecture Prerequisite: RAD 52A and RAD 61A Corequisite: RAD 52B 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 |
| 54 to 108 hours lab Prerequisite: R-TV 01 Advisory: R-TV 02 and R-TV 11A Regular and continuing experience in the operation of the College radio stations. Students may work in on-air or behind-the-scenes roles. Students who repeat this course will improve skills through further | 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. R-TV 100 — Work Experience in Film and Television 1 to 3 Units Degree Applicable | bridge between film-based and digital imaging systems. Principles of digital system quality assurance and maintenance presented. RAD 50 — Radiologic Technology S4 hours lecture Prerequisite: Admission to the Radiologic Technology Program and CHEM |
| instruction and practice. R-TV 97A — Radio/Entertainment Industry Seminar 1 Unit Degree Applicable (May be taken four times for credit) 18 hours lecture | (May be taken four times for credit) (May be taken for option of letter grade or Pass/No Pass) 75 to 225 hours lab Prerequisite:Completion of 12 units of R-TV courses from among the following: R-TV 1, 14, 18, 19A, 19B, 20, 21, 22, 23, taken at Mt. San Antonio College. Compliance with work experience regulations as | 10 Radiation protection, darkroom technique, general principles of x-ray production and production of the radiograph in the hospital environment. Includes professional ethics and the legal considerations of health care. |
| 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. | Antonio College. 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. RADIOLOGIC TECHNOLOGY | ■ RAD 52A — Techniques of Radiologic Technology 5 Units Degree Applicable, CSU (May be taken for Pass/No Pass only) 263 hours lab <i>Prerequisite: ANAT 10A</i> <i>Corequisite: RAD 61A</i> Practical application of radiographic theories and principles in a hospital setting under direct supervision of clinical personnel and college |
| ■ R-TV 97B — Radio/Entertainment Industry Internship 1 Unit Degree Applicable (May be taken four times for credit) 75 hours lab | RAD 30 — Radiographic Pathology 1.5 Units Degree Applicable 24 hours lecture | instructors. Emphasis on chest, upper and lower limbs, from digits to shoulder, from toes to knee, abdomen, and kidney, ureters, and bladder (KUB). |
| 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 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 | Corequisite: RAD 63 Advisory: RAD 64 Concepts of disease and pathological processes demonstrated in diagnostic radiography; etiology; diagnosis, and prognosis of systemic disease processes. ■ RAD 31 — Fluoroscopy 2 Units Degree Applicable | ■ RAD 52B — Techniques of Radiologic Technology 2.5 Units 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. |
| will improve skills through further instruction and practice. | 36 hours lecture Prerequisite: RAD 55B Corequisite: RAD 64 and RAD 65 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) 263 hours lab <i>Prerequisite: RAD 52B</i> <i>Corequisite: RAD 62A</i> 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. |

| RAD 54 — Techniques of Radiologic Technology 3 Units Degree Applicable, CSU (May be taken for Pass/No Pass only) 167 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 | 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, electromagnetic radiation, electricity and magnetism, electromagnetism, the X-ray machine and fluoroscopic equipment and | RAD 62C — Radiologic Technology Seminar 1.5 Units Degree Applicable, CSU 18 hours lecture 18 hours lab <i>Corequisite: RAD 62A and RAD 62B</i> Analysis of the technical performance of radiographic examination of the vertebral column, bony thorax, digestive system, urinary system, abdomen and skull radiography. |
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| relates to radiologic technology. RAD 55A — Techniques of Radiologic Technology <i>T.5 Units</i> Degree Applicable, CSU (May be taken for Pass/No Pass only) 383 hours lab <i>Corequisite: RAD 63</i> Practical experience in an affiliated hospital under guidance of clinical personnel and college instructors. Emphasis on cystograms, urethrograms, foreign body localization, tomography, and venography. | procedures. RAD 61B — Radiographic Positioning 3 Units Degree Applicable, CSU 54 hours lecture Prerequisite: RAD 50, RAD 91, ANAT 10A, and MEDI 90 Corequisite: RAD 61A, RAD 61C, and RAD 52A Radiographic positioning of the upper and lower extremities, standard chest and abdomen; to include general radiologic anatomy, terminology, radiation protection, and ethics. | RAD 63 — Theory of Radiologic Technology 4 Units Degree Applicable, CSU 72 hours lecture Prerequisite: RAD 54 Corequisite: RAD 55A Special radiographic studies, contrast media usage and radiographic pathology. Includes principles of radiation protection and radiobiology. RAD 64 — Theory of Radiologic Technology 4 Units Degree Applicable CCI |
| RAD 55B — Techniques of Radiologic Technology 2.5 Units Degree Applicable, CSU (May be taken for Pass/No Pass only) 140 hours lab Prerequisite: RAD 55A 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 61C — Radiologic Technology Seminar 1.5 Units Degree Applicable, CSU 18 hours lecture 18 hours lab <i>Corequisite: RAD 61A and RAD 61B</i> Analysis of technical performance when producing radiographs of the chest, upper and lower extremities, and abdomen. Documentation of radiographic exposure techniques. | Degree Applicable, CSU 72 hours lecture Prerequisite: RAD 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. RAD 91 — Nursing Procedures in Radiologic Technology 1.5 Units Degree Applicable, CSU |
| 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, | ■ RAD 62A — Theory of Radiologic Technology 4 Units Degree Applicable, CSU 72 hours lecture <i>Prerequisite: ANAT 10A, RAD 61A</i> <i>Corequisite: RAD 53, RAD 62B and RAD 62C</i> Areas 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. | 18 hours lecture 47 hours lab <i>Corequisite: RAD 50</i> 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. |
| arthrograms, and hysterosalpingograms. RAD 57 — Techniques of Radiologic Technology 4.5 Units Degree Applicable, CSU (May be taken for Pass/No Pass only) 239 hours lab <i>Prerequisite: RAD 64</i> 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 venipuncture instruction. | RAD 62B — Radiographic Positioning 3 Units Degree Applicable, CSU 54 hours lecture <i>Prerequisite: RAD 32 and RAD 52B</i> <i>Corequisite: RAD 62A and RAD 62C and RAD 53</i> Radiographic positioning and procedures of the abdomen, digestive and urinary systems, thorax, vertebral column, general cranial, facial and introduction to temporal bone radiography to include radiologic anatomy, terminology, radiation protection, pediatric radiography and ethics. | READING Image: Reading Comprehension and the second seco |

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| READ 90 — Preparing for College Reading Degree Applicable Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 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. 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 texts to include: academic, business, and technology readings. RESD 50 — Theory and Principles of Respiratory Therapy 2 Units Degree Applicable, CSU 36 hours lecture Prerequisite: 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 54 hours lecture 54 hours lab Corequisite: RESD 50 and RESD 52 Basic principles of respiratory 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 54 hours lab Prerequisite: RESD 50 and RESD 51 A Grequisite: RESD 51 A and RESD 52 Basic principles of respiratory 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 54 hours lab Prerequisite: RESD 50 and RESD 51 A Grequisite: R | RESD 52 — Pulmonary Anatomy and Physiology 3 Units Degree Applicable, CSU 54 hours lecture Corequisite: RESD 50 and RESD 51A Anatomy and physiology of the cardiopulmonary, neurological and renal systems emphasizing clinical application of physiological concepts. RESD 53 — Cardiopulmonary Pathophysiology 3 Units Degree Applicable, CSU 54 hours lecture Corequisite: RESD 51B Anatomic alterations of the lungs, etiology, overview of the cardiopulmonary clinical manifestations, and general management of commonly encountered cardiopulmonary diseases. RESD 55 — Adult Respiratory Intensive Care 3 Units Degree Applicable, CSU 54 hours lecture Corequisite: RESD 56B Provides an in-depth approach to the current modalities and monitoring tools of respiratory care. Emphasis is on the adult patient who is critically ill with primary and/or secondary cardiopulmonary failure. RESD 56A — Techniques of Respiratory Therapy 2.5 Units Degree Applicable, CSU (May be taken for Pass/No Pass only) 143 hours lab Prerequisite: RESD 57B Clinical practice in intensive care and mechanical ventilator procedures in the treatment of adult and pediatric patients in a hospital setting. The student is expected to perform basic therapeutic modalities mastered in RESD 51B and apply concepts learned in the first academic sessions of the Respiratory Therapy Program. Instruction in the application of therapeutic modalities mastered 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) 324 hours lab Prerequisite: RESD 55 and RESD 58 Clinical practice in the hospital setting. The student is expected to perform basic therapeutic modalities mastered in RESD 515 and Corequisite: RESD 55 and RESD 58 Clinical practice in the hospital setting. The student is expected to perform basic therapeutic modalities mastered in RESD 514 | Degree Applicable, CSU 54 hours lecture <i>Corequisite: RESD 56B and RESD 55</i> Emphasizes neonatal pathophysiologies, etiologies, and ramifications. |
| Degree Applicable, CSU 54 hours lecture 54 hours lab Prerequisite: RESD 50 and RESD 51A | Degree Applicable, CSU (May be taken for Pass/No Pass only) 324 hours lab <i>Prerequisite: RESD 56A</i> <i>Corequisite: RESD 55 and RESD 58</i> | RESD 58 — Neonatal Intensive Care 3 Units Degree Applicable, CSU 54 hours lecture Corequisite: RESD 56B and RESD 55 |

| RESD 59 — Respiratory Therapeutic Modalities 3 Units Degree Applicable, CSU 54 hours lecture <i>Corequisite: RESD 56C</i> Advanced practitioner review and evaluation of patient data, equipment manipulation, and therapeutic respiratory therapy procedures. Student self assessment and preparation for board examinations, credentialing and employment. Students are required to purchase self-assessment examinations. RESD 60 — Comprehensive Pulmonary Assessment 2 Units Degree Applicable, CSU | SL 3 — Service Learning/Seminar in Community Involvement Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 18 hours lecture 108 hours lab 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. | 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 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 |
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| 36 hours lecture Gorequisite: RESD 51B and RESD 53 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. Image: Rest of the constraint o | SL 4 — Service Learning and Community Involvement 1 Unit 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 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. SIGN 101 — American Sign Language 1 4 Units Degree Applicable, CSU, UC 72 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. 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 expressive aspects of the language, as well as exposure to Deaf culture. | 12 Indus letting 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, CSU 72 hours lecture Prerequisite: SIGN 82B or SIGN 104 Advanced American Sign Language communication skills with emphasis on signing descriptive narratives and strengthening conversational skills. Target language practice includes holding discussions and making decisions. Further exposure to Deaf cultural components. B SIGN 108 — Fingerspelling 2 Units Degree Applicable (May be taken for Pass/No Pass only) 36 hours lecture Prerequisite: SIGN 81 or SIGN 102 Skill development in receptive and expressive fingerspelling. 3 Units Degree Applicable, CSU 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 from their relatives, educators, and other professionals in the field. B SIGN 202 — American Deaf Culture 3 Units Degree Applicable, CSU, UC 54 hours lecture SIGN 203 — Camerican Sign Language Structure 3 Units Degree Applicable, CSU, UC 54 hours lecture </td |
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| SOC 4 — Introduction to Gerontology 3 Units Degree Applicable, CSU, UC S4 hours lecture Characteristics, contributions, and problems of older persons. Emphasizes theoretical perspectives on the process of aging. Topics include gender, 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, CSU, UC S4 hours lecture A scientific analysis of the nature, extent, and causes of violations of societal rules of behavior that are formally defined as crime and delinquency. Includes an analysis of the theoretical perspectives of the sociology of deviance on the criminology - Honors 3 Units Degree Applicable, CSU, UC S4 hours lecture SOC 5H — Introduction to Criminology - Honors 3 Units Degree Applicable, CSU, UC S4 hours lecture S4 hours lecture S0C 5H — Introduction to Criminology - Honors 3 Units Degree Applicable, CSU, UC S4 hours lecture S4 hours lecture S64 hours lecture S64 hours lecture S65 file nature, extent, and causes of violations of societal rules of behavior that are formally defined as crime and delinquency. Includes an analysis of the theoretical perspectives of the sociology of deviance on the criminal justice system and the impact of crime on society. An honors course designed to provide an enriched experience. Students may not receive credit for both SOC 5 and SOC 5H. SOC 7 — Sociology of Religion 3 Units Degree Applicable, CSU, UC S4 hours lecture | SOC 14H — Marriage and the Family - Honors 3 Units Degree Applicable, CSU 54 hours lecture <i>Prerequisite: Acceptance into the Honors Program</i> Sociological 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, the family, and gender roles. Explores different types of families and family patterns. An honors course designed to provide an enriched experience. Students may not receive credit for both SOC 14 and SOC 14H. SOC 15 — Child Development 3 Units Degree Applicable, CSU, UC 54 hours lecture Theoretical aspects of physical, social, emotional and cognitive 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 Degree Applicable, CSU, UC 54 hours lecture | SOC 91 — Service Learning for Sociology 1 Unit Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 18 hours lecture Prerequisite: Eligibility for ENGL 68 Increases awareness and appreciation for civic responsibility through service learning. Students will examine the sociological dynamics of community service and assess specific needs for community service and fundraising. Field trips required. SOC 91L — Service Learning for Sociology Lab .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) 27 to 108 hours lab <i>Corequisite: SOC 91 (May have been taken previously.)</i> Examines and addresses community needs through service learning. Students will organize fundraising and other community events. Field trips required. SOC 99 — Special Projects in Sociology 2 Units Degree Applicable, CSU (May be taken four times for credit) 36 hours lecture Offers 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 |
| An analysis of religion as a social institution. Attention will focus on the influence that religion has on American society, religious movements, norms, symbols and the social manifestations of religious observable facts. Soc 14 — Marriage and the Family 3 Units Degree Applicable, CSU, UC 54 hours lecture <i>Prerequisite: Eligibility for ENGL 68</i> Sociological 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, the family, and gender roles. Explores different types of families and family patterns. | Prerequisite: Acceptance into the Honors Program 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. SOC 36 — Asian American Communities 3 Units Degree Applicable, CSU, UC 54 hours lecture A socio-cultural study of Asian Americans that includes race, class and gender. Explores the contemporary experiences of peoples originating in the Pacific Islands, Southeast Asia, South Asia, and East Asia; emphasizes social structure, social change, and offers a theoretical framework for analysis. | enhanced. SPANISH SPAN 1 — Elementary Spanish 4 Units Degree Applicable, CSU, UC 72 hours lecture 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 Degree Applicable, CSU, UC 72 hours lecture Prerequisite: SPAN 1 or equivalent 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 12 — Continuing Spanish for the Spanish Speaking 4 Units | SPEECH |
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| Prerequisite: SPAN 2 or equivalent Further development of communicative proficiency in Spanish. Further study and review of grammar. Increasing emphasis on reading and writing as tools in exploring Hispanic civilization. | Degree Applicable, CSU, UC 72 hours lecture <i>Prerequisite: SPAN 11 or equivalent</i> 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. | ■ SPCH 1A — Public Speaking 4 Units Degree Applicable, CSU, UC 72 hours lecture <i>Prerequisite: Eligibility for ENGL 68</i> Study and apply rhetorical principles to research and analyze topics, write basic and advanced speech outlines, and deliver effective public speeches. Perform speaking and listening assignments that utilize |
| SPAN 4 — Continuing Intermediate Spanish 4 Units Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) | SPAN 25 — Spanish Literature 3 Units Degree Applicable, CSU, UC | effective verbal, vocal and physical communicative strategies, and critical/analytical techniques. Students may not receive credit for both SPCH 1A and SPCH 1AH. |
| Emphasis on increased proficiency in speaking, reading and writing Spanish. Review of grammar, increased vocabulary building. Readings and discussions on Hispanic cultural topics. Introduction to Hispanic literature | (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture <i>Prerequisite: SPAN 4 or equivalent</i> Introduction to the literatures of Mexico, other Spanish-American countries and Spain. All reading and lectures are in Spanish. | SPCH 1AH — Public Speaking - Honors Degree Applicable, CSU, UC Degree Applicable, CSU, UC Prerequisite: Acceptance into the Honors Program Study and apply rhetorical principles to research and analyze topics, write |
| SPAN 5 — Advanced Spanish 4 Units Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 72 hours lecture | SPAN 40 — Intermediate Spanish for 4 Units Health Professionals Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 72 hours lecture | basic and advanced speech 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. |
| Emphasis 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. | 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. | SPCH 1B — Intermediate Public Speaking 3 Units Degree Applicable, CSU, UC 54 hours lecture Prerequisite: SPCH 1A or SPCH 1AH |
| SPAN 6 — Continuing Advanced Spanish 4 Units Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 72 hours lecture Prerequisite: SPAN 5 or equivalent | especially as it relates to health care issues. SPAN 53 — Conversational Spanish 3 Units Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) | 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. |
| 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. | 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. | SPCH 2 — Fundamentals of Communication 4 Units Degree Applicable, CSU, UC 72 hours lecture Corequisite: ENGL 1A or ENGL 1AH (May have been taken previously.) Eurodemotal theories and competencies in internets of any group |
| SPAN 11 — Spanish for the Spanish Speaking 4 Units Degree Applicable, CSU, UC 72 hours lecture Provides 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 | exposure to Hispanic culture. Grammar is presented in context. SPAN 54 — Continuing 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 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. | Fundamental theories and competencies in interpersonal, small group, public, and intercultural communication. Oral presentations are required. SPCH 3 — Voice and Diction 3 Units Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 54 hours lecture Improvement 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 4 — Performance of Literature 2 units Degree Applicable, CSU, UC 4 — Non-Section 2 and the theory production flats and design room into the leasor Pagnam detectes with a factor on swim was at chevel, takefore and maintered techniques of drawing production flats and design room into the leasor Pagnam detectes with a factor on swim was at chevel, takefore and maintered techniques of drawing production flats and design room into the leasor Pagnam detectes with a factor on swim was at chevel, takefore and maintered techniques of the description of the description of the leasor Pagnam detection, was the development, this control of the description of the de |
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| 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. Off-campus public or tournament performance required. |

Course Descriptions

| SPCH 26H — Interpersonal Communication - Honors 3 Units Degree Applicable, CSU, UC 54 hours lecture 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 26H. SPCH 30 — Gateway to Communication Studies 3 Units | STDY 85A — Test-Taking and Stress 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 academic field or in a vocation. Provides support in understanding how the brain functions and applying that knowledge to test-taking and stress management strategies. STDY 85B — Notetaking and Listening 1 Unit Not Degree Applicable 18 hours lecture | STDY 100 — Student Achievement and Fundamentals 3 Units 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 successful transfer/transition to four-year institutions or careers. SURVEYING |
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| Degree Applicable, CSU, UC 54 hours lecture <i>Prerequisite: ENGL 1A or ENGL 1AH (May have been taken previously)</i> <i>Advisory: READ 100</i> Survey of prominent issues in communication theory, introduction to the professional field of communication, and practice of multiple research methods. Particularly useful for students preparing for upper division study in communication or related disciplines. | 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. STDY 85C — Study Techniques and Skills for Online Learning Not Degree Applicable | SURV 1A — Surveying 3 Units Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 36 hours lecture 54 hours lab <i>Prerequisite: MATH 150</i> 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 |
| a SPCH 99 — Special Projects in Speech 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 consideration. Students repeating this course will make individual contracts of a more advanced nature with the instructor to ensure that proficiencies are enhanced. STDY 80 — Studying and Learning: Foundations on the Study be taken for option of letter grade or Pass/No Pass) 3 Units 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, listening, note taking, oral and written communication, test- taking, memorization, use of campus resources, and research methods. | Not Degree Applicable 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. Image: 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 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. Image: 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 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. 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 brain functions and applying that knowledge to memory and concentration strategies. | |

Course Descriptions

| THEATER ARTS | THTR 16 — Theatrical Make-Up 2.5 Units Degree Applicable, CSU, UC | THTR 25 — Theatrical Playwriting 3 Units Degree Applicable, CSU |
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| THTR 9 — Introduction to Theatre Arts 3 Units Degree Applicable, CSU, UC 54 hours lecture A comprehensive introduction to the theater, including the aesthetic, artistic, technical, and business aspects. | 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, | 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 established authors and |
| artistic, technical, and business aspects. I THTR 10 — History of Theatre Arts Degree Applicable, CSU, UC S4 hours lecture Prerequisite: Eligibility for ENGL 1A Dramatic literature and the development of dramatic art. Representative plays and the history and development of the living stage will be stressed. I THTR 11 — Principles of Acting I 3 Units Degree Applicable, CSU, UC S4 hours lecture Introduction 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. I THTR 12 — Principles of Acting I 3 Units Degree Applicable, CSU, UC S4 hours lecture Prerequisite: THTR 11 Advanced study of principles presented in DRMA 11. An investigation of acting techniques through the study and presentation of varied dramatic scenes. I THTR 14 — Stagecraft 3 Units Degree Applicable, CSU, UC (May be taken two times for credit) 36 hours lecture S4 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. I THTR 15 — Play Rehearsal and Performance 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 lab Planning, preparation, and presentation of college-sponsored dramatic presentations. Emphasis on acting with some technical theater assignments. Students who repeat this course will improve skills through further instruction and practice. Attendance at performances is required. | THR 17 — Acting for the Camera 3 Units Degree Applicable, CSU, UC 54 hours lecture Prerequisite: THTR 11 Study in performance for TV and films. 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, evaluation and use of scripts and monologues with practical exercises and on-camera scenes in various styles such as TV drama, sit-coms, commercials. Assists students prepare for an occupation in the performing areas of television and film. THTR 18 — Technical Theater Practicum 1 Unit Degree Applicable, CSU, UC (May be taken for option of letter grade or Pass/No Pass) 54 hours lab 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. THTR 19 — Theatrical Costuming 3 Units Degree Applicable, CSU, UC (May be taken two times for credit) 36 hours lecture 54 hours lab Thetrical costuming design and construction. Includes the study of costume have to times for credit) 36 hours lecture 54 hours lab Thetrical costuming design and construction. Includes the study of costume construction, and design rendering techniques. Costume crew assignments on costumes and their proper maintenance. Class is suitable for people interested in costuming for theater, dance, film, television, and reenactments. Students who repeat this course will improve skills through further instruction and practice. | productions. Includes basics of linear, episodic, 'A'-'B' and ritual structures. THTR 60 — Children's Theatre 2 Units Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 108 hours lab 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 skills through further instruction and practice. Field trips are required. THTR 62 — Advanced Acting Scenework 1 Unit Degree Applicable, CSU (May be taken four times for credit) 54 hours lab Prerequisite: THTR 11 Advanced acting workshop that focuses on the development and refinement of two-person acting scenes. THTR 99 — Special Projects in Theatre 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 in greater depth, the various departments from time of 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. TRANSPORTATION Sunits Degree Applicable, CSU 54 hours lecture A survey course of the air transportation industry. Topics include a historical perspective, r |
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| 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 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. | 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 sessions, and application of strategic reading processes. This course prepares students to become reading tutors for all READ students. WATER TECHNOLOGY | WATR 64 — Cross Connection Control - Certified Specialist 3 Units Degree Applicable 54 hours lecture <i>Advisory: WATR 60 taken prior</i> Offers knowledge necessary to apply the principles of backflow 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. |
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| TUTOR TRAINING TUTR 10A — Introduction to Tutoring 1 Unit Not Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 18 hours lecture Introduction to tutoring, with an emphasis on tutoring strategies, problem solving, and working with a diverse student population. | ■ WATR 60 — Introduction to Water Systems 3 Units 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 AWWA Water Distribution Operator Certification. | WATR 65 — Water Hydraulics and Instrumentation 3 Units Degree Applicable 54 hours lecture <i>Advisory: WATR 60 taken prior</i> Practical water supply hydraulics and instrumentation, with emphasis on distribution system capacity, hydraulic analysis, pumping analysis, customer service lines and meters, automation, instrumentation and control, system maintenance and records. |
| TUTR 10B — Tutoring in the English Language 1 Unit Not Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 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. TUTR 10C — Tutoring as a Supplemental Instructor 1 Unit Degree Applicable (May be taken for action of letter grade or Pass (No Pass) | WATR 61 — Water Treatment 3 Units Degree Applicable 54 hours lecture <i>Advisory: WATR 60 taken prior</i> Emphasizes public health aspects of potable water supply, wells, process control procedures, chlorination systems, water softening, safety, review 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. | WELDING WELD 30 — Metal Sculpture 2 Units Degree Applicable, CSU Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 18 hours lecture 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. |
| (May be taken for option of letter grade or Pass/No Pass) 18 hours lecture Prerequisite: Eligibility for ENGL 1A Tutoring as a Supplemental Instructor with an emphasis on tutoring in the classroom and in small groups under the supervision of a designated instructor. TUTR 10D — Tutoring in Mathematics 1 Unit Not Degree Applicable (May be taken for option of letter grade or Pass/No Pass) 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 62 — Water Distribution 3 Units Degree Applicable 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. WATR 63 — Cross Connection Control - Certified Tester 3 Units Degree Applicable 54 hours lecture Advisory: WATR 60 taken prior or concurrently Offers knowledge necessary to understand the operation of and testing procedures for backflow prevention assemblies. Analyzes Title 17 of the | WELD 40 — Introduction to Welding 2 Units 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 Oxyacetylene fusion welding, non-fusion welding and cutting. Develops understanding of and fundamental skills in modern welding practices. |
| | 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. | |

Course Descriptions

| WELD 51 — Basic Electric Arc Welding 2 Units Degree Applicable 18 hours lecture 54 hours lab Advisory: WELD 50 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 Degree Applicable, CSU 54 hours lecture | WELD 70C — Certification for Welders 3 Units Degree Applicable 18 hours lecture 108 hours lab Advisory: WELD 70A taken prior 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. WELD 80 — Construction Fabrication and Welding 3 Units Degree Applicable 18 hours lecture | 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 <i>Advisory: WELD 70B taken prior</i> 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. |
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| 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. WELD 60 — Print Reading and Computations for Welders 3 Units 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. WELD 70A — Beginning Arc Welding 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 70B — Intermediate Arc Welding 18 hours leb Degree Applicable 18 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. | 108 hours lab Advisory: WELD 40, WELD 51, WELD 70A 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. WELD 81 — Pipe and Tube Welding 3 Units Degree Applicable 18 hours lecture 108 hours lab Advisory: WELD 70B, WELD 70C Welding in all positions as applied to the pipe industry. Welding processes include shielded metal arc welding (SMAW), gas tungsten arc welding (GTAW), gas metal arc welding (GMAW), flux cored arc welding (FCAW) using a variety of materials and configurations on subcritical and critical piping and tubing. WELD 90A — Gas Tungsten Arc Welding 3 Units Degree Applicable, CSU (May be taken for option of letter grade or Pass/No Pass) 18 hours lab Advisory: WELD 70B taken prior 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. | WELD 91 — Automotive Welding, Cutting and Modification 3 Units 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 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 (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. 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. |



section eleven

Continuing Education

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, Adult Basic Education (*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 Adult Basic Education 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

Adult Basic Education students are assessed prior to enrolling in courses. Additional assessments are available for specific needs. Adult Basic Education assessment services include testing for academic skill levels, learning strengths, career paths and learning disabilities. For more information, contact (909) 274-4845.

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) 274-5235.

Orientation

Adult Basic Education 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, Building 40, room 104, 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 Adult Basic Education Center. To schedule an individual appointment, students should call the Continuing Education Center, (909) 274-4845. The Adult Basic Education 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 Building 40, room 104. 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 214 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, Building 40, room 104 to initiate the issuance of a certificate.

Adult Basic Education and Special Programs

The Adult Basic Education 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 Adult Basic Education and Special Programs, contact (909) 274-4845.

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) 274-5235.

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) 274-4580.

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 Building 40, room 104, or in the Wellness Center. For more information, contact (909) 274-4625.

*Note: Although courses are designed for the older adult, anyone 18 years of age and older may enroll.

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) 274-4838.

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 Mt. SAC credit and noncredit health career students. 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.

Registration is limited to students enrolled in Mt. SAC credit and

noncredit health occupations programs.

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

Continuing Education Division

- Long-Term and Acute Certified Nursing Assistant (C.N.A.)
- IV Therapy, CPR
- 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) 274-4192.

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)
- 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) 274-4220.

Certificates of Competency

NONCREDIT LIST OF CERTIFICATES

Certificates in Occupational Training

| Ассо | unting | 214 |
|-------|----------------------------------|-----|
| | Bookkeeping | |
| | omputerized | |
| Р | ayroll | 214 |
| Agrio | cultural Science | 214 |
| F | loral Design | 214 |
| Н | lorse Ranch Management | 215 |
| Ir | nterior Landscaping | 215 |
| L | andscape and Park Maintenance | 215 |
| L | andscape Design and Construction | 215 |
| | andscape Equipment Technology | |
| L | andscape Irrigation | 215 |
| L | ivestock Management | 215 |
| Ν | lursery Management | 215 |
| Р | ark Management | 215 |
| Р | et Science | 216 |
| S | ports Turf Management | 216 |
| T | ree Care and Maintenance | 216 |
| | | |

Basic Skills213Career Development213English as a Second Language213ESL, Beginning Level213ESL, Intermediate Level213ESL, Advanced Level213GED Preparation213

| Business Management | |
|---|-----|
| Business Management — Level 1 | 216 |
| Business Management – Level 2 | 216 |
| Business Management – Level 3 | 216 |
| Human Resource Management | |
| International Business – Level 1 | 216 |
| International Business – Level 2 | |
| Retail Management – Level 1 | |
| Retail Management – Level 2 | |
| Retail Management – Level 3 | |
| Small Business Management – Level 1 | |
| Small Business Management – Level 2 | |
| Small Business Management – Level 3 | |
| Electronics | |
| Computer and Networking Technology – Level 1 | |
| Computer Systems Technology | |
| Electronic Assembly and Fabrication | |
| Electronic Systems Technology – Level 1 | |
| Electronic Systems Technology – Level 2 | 218 |
| Electronic Technology | |
| Electronics and Computer-Engineering Technology | |
| Electronics Communications | |
| Industrial Electronics | |
| | 210 |

| Health Careers | 218 |
|---|-----|
| Certified Nursing Assistant | 218 |
| Health Care Interpreting | |
| Manufacturing Technology | |
| Manufacturing Technology | |
| MasterCAM | 219 |
| Parametric Solid Modeling | 219 |
| SurfCAM | 219 |
| Office Technology | 219 |
| Administrative Assistant – Level 1 | 219 |
| Administrative Assistant – Level 2 | 219 |
| Data Entry | 220 |
| Office Computer Applications | |
| Photographics | |
| Computer Graphics Design / Photography | 220 |
| Photography | |
| Welding Technologies | |
| Welding | |
| Licensed Welder | |
| Welder with Concentration in Automotive Welding, | |
| Cutting and Modification | 220 |
| Welder with Concentration in Gas Tungsten ARC Welding | 220 |
| Welder with Concentration in Semiautomatic | |
| ARC Welding | 220 |
| | |

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 #24058

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) 274-4845.

Certificate Requirements:

| 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 #24060

ESL WRTE Career development provides students with information and ESL WRTO guidance on college opportunities, careers and life planning. Students can apply skills gained to their current employment ESL LANG and personal lives and will improve their opportunities to BS LANG² advance in their careers or transition into a new career. This ESL VHLT sequence of courses is offered days and evenings to

accommodate adults with alternating schedules. For more information, please call (909) 274-4845.

Certificate Requirements: Course

| 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' Workforce |
| BS CNSL5 | Career/Life Planning |
| | |

English as a Second Language #24054

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) 274-5235.

Certificate Requirements:

| 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 |

ESL Beginning Level #30375

ESL students are placed within the following sequence of beginning courses according to their English abilities. Students progress through this sequence based on individual need before transitioning into intermediate 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) 274-5235.

Certificate Requirements:

| Course ID | Course Title | |
|-------------------|-------------------|--|
| ESL PLVL1 | ESL – Pre-Level 1 | |
| ESL LVL1 | ESL – Level 1 | |
| ESL LVL2 | ESL – Level 2 | |
| ELective Courses: | | |

| ESL – Speaking A |
|--------------------------------------|
| ESL – Writing A |
| ESL Computer and Language Skills Lab |
| |

ESL Intermediate Level #30374

ESL students are placed within the following sequence of beginning courses according to their English abilities. Students progress through this sequence based on individual need before transitioning into intermediate 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) 274-5235.

Certificate Requirements:

| Course ID | Course Title |
|-----------|---------------------|
| ESL LVL3 | ESL – Level 3 |
| ESL LVL4 | ESL – Level 4 |

ELective Courses:

| ESL SPKA | ESL – Speaking B |
|-----------|--------------------------------------|
| ESL WRTA | ESL – Writing B |
| ESL LANG2 | ESL Computer and Language Skills Lab |

ESL Advanced Level #30376

ESL students are placed within the following sequence of beginning courses according to their English abilities. Students progress through this sequence based on individual need before transitioning into intermediate 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) 274-5235.

Certificate Requirements:

| Course ID | Course Title | |
|-------------------|---------------|--|
| ESL LVL5 | ESL – Level 5 | |
| ESL LVL6 | ESL – Level 6 | |
| ELective Courses: | | |

| LLective courses | h. |
|------------------|--------------------------------------|
| ESL SPKA | ESL — Speaking C |
| ESL WRTA | ESL – Writing C |
| ESL LANG2 | ESL Computer and Language Skills Lab |
| ESL LAND3 | English for special uses |
| ESL TOEFL | TOEFL Preparation |
| ESL VHLTH | ESL for Health Professionals |
| | |

GED Preparation **#PENDING**

Improve the academic skills needed for passing the General Education Development (GED) exam. Math, reading, writing, science and social studies. Progress in a sequence based on individual need. For more information, please call (909) 274-4845.

Certificate Requirements:

| Course ID | Course Title |
|-----------|---|
| BS GEDMA | GED Preparation: Mathematics |
| BS GEDRD | GED Preparation: Language Arts, Reading |
| BS GEDSC | GED Preparation: Science |
| BS GEDSS | GED Preparation: Social Studies |
| BS GEDWR | GED Preparation: Science |

Secondary Education #24213

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) 274-4845.

Certificate Requirements:

| 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 | High School Art 2 |
| BSHS BIO | High School Biology |
| BSHS CHEM | High School Chemistry |
| BSHS CHN1 | High School Chinese 1 |
| BSHS CIV | 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 | High School English 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 KEY | High School Typing/Keyboarding |
| BSHS LSC | High School Life Science |
| BSHS MUSC | High School Music Appreciation |
| BSHS NS1 | High School Natural Science 1 |
| 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 |
| DCULC COC | |

| BSHS SPN1 | High School Spanish 1 |
|-----------|-----------------------------------|
| BSHS SPN2 | High School Spanish 2 |
| BSHS TAL2 | High School Topics in Algebra 2 |
| BSHS TGEO | High School Topics in Geometry |
| BSHS USHS | High School United States History |
| 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
- Phlebotomy Technician
- RN Re-Entry into Practice

Specific certificate content and more information can be found in the Community Services Schedule of Classes each semester or contact (909) 274-4220.

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.

Getting Help

For more information regarding occupational training certificates, please call the Division office at (909) 274-4220. 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, Building 40, room 104. Times will be posted and students served on a first-come, first-served basis. Advisers are also available by appointment during the semester. Please call (909) 274-4845 to schedule an appointment.

OCCUPATIONAL – ACCOUNTING

Accounting – Bookkeeping #24089

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:

| ourse ID | Course Title |
|----------|---|
| /OC BA07 | Principles of Accounting – Financial, <u>or</u> |
| /OC BA72 | Bookkeeping – Accounting |
| /OC BA53 | Ten-Key Calculations |
| /OC B005 | Business English, <u>or</u> |
| /OC B025 | Business Communications |
| | |

Accounting – Computerized #24246

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 CSB31 | Microsoft Word |

Accounting – Payroll #24074

The Payroll 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:

Completion of Accounting – Bookkeeping Certificate (234 hours)

| Course ID C | ourse T | itle |
|-------------|---------|------|
|-------------|---------|------|

| VOC BA70 | Payroll and Tax Accounting |
|----------|---|
| VOC BS75 | Using Microcomputers in Financial Accounting, <i>or</i> |
| VOC BA76 | Using Microcomputers in Managerial Accounting |
| | necounting |

OCCUPATIONAL – AGRICULTURAL SCIENCE

Floral Design #24242

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 |

High School Sociology

BSHS SOC

CONTINUING EDUCATION

Horse Ranch Management #24340

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, <u>or</u> |
| 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 #24342

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 Landscaping |
| VOC AGR24 | Integrated Pest Management |
| VOC AGR29 | Ornamental Plants – Herbaceous |
| VOC AGR32 | Landscaping and Nursery Management |
| VOC AGR62 | Landscape Irrigation – Design and Installation |
| VOC AGR64 | Landscape Irrigation — Drip and Low Volume |

Landscape and Park Maintenance #24113

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 ID | Course Title | Hours |
| VOC AGR01 | Horticultural Science | |
| VOC AGR24 | Integrated Pest Management | |
| VOC AGR29 | Ornamental Plants – Herbaceous | |

| VOC AGR30 | Ornamental Plants — Trees and Woody Shrubs |
|-----------|--|
| VOC AGR39 | Turf Grass Production and Management |
| 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 Fundamentals |

Landscape Design and Construction #24248

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 VOC AGR01 | Course Title 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 |
| | |

Landscape Equipment Technology #24111

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 Requirements:

| 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 #24088

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

| Course in | course mile | VUC AUNU I |
|-----------|---|------------|
| VOC AGR01 | Horticultural Science | VOC AGR02 |
| VOC AGR13 | Landscape Design | |
| VOC AGR39 | Turf Grass Production and Management | VOC AGR24 |
| VOC AGR50 | Soil Science and Management | VOC AGR29 |
| VOC AGR51 | Tractor and Landscape Equipment Operations | VOC AGR30 |
| VOC AGR62 | Landscape Irrigation – Design and | VOC AGR32 |
| | Installation | VOC AGR39 |
| VOC AGR63 | Landscape Irrigation System Management | VOC AGR62 |
| VOC AGR64 | Landscape Irrigation – Drip and Low Volume | VOC AGR64 |
| VOC AGR71 | Landscape Construction Fundamentals | |

Livestock Management #24057

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:

VOC BS36

| | Course ID | Course Title | Course l |
|---|-----------|--|----------|
| | VOC AGG01 | Food Production, Land Use and Politics – | VOC AGI |
| | | a Global Perspective | VOC AGI |
| | VOC AGN01 | Animal Science | VOC AGI |
| | VOC AGN02 | Animal Nutrition | VOC AGI |
| | VOC AGN94 | Animal Breeding | VOC AGI |
| | VOC AGL14 | Swine Production | |
| | VOC AGL16 | Horse Production | VOC AGI |
| | VOC AGL17 | Sheep Production | VOC AGI |
| | VOC AGL30 | Beef Production | |
| | VOC AGL34 | Livestock Judging and Selection | VOC AGI |
| | VOC AGL96 | Animal Sanitation and Disease Control | |
| Plus select 2 courses from the following: | | VOC AGI | |
| | VOC AGR71 | Landscape Construction Fundamentals | VOC AGI |
| | VOC BM20 | Principles of Business | voend |
| | VOC BM66 | Small Business Management | |
| | VOC BS35 | Professional Selling | |
| | | | |

Principles of Marketing

Nursery Management #24209

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:

| Course ID | Course Title | |
|---|---|--|
| VOC AGR01 | Horticultural Science | |
| VOC AGR02 | Plant Propagation/Greenhouse | |
| | Management | |
| VOC AGR24 | Integrated Pest Management | |
| VOC AGR29 | Ornamental Plants – Herbaceous | |
| VOC AGR30 | Ornamental Plants – Trees and Woody Shrubs | |
| VOC AGR32 | Landscaping and Nursery Management | |
| VOC AGR39 | Turf Grass Production and Management | |
| VOC AGR62 | Landscape Irrigation — Design and Installation | |
| VOC AGR64 | Landscape Irrigation – Drip and Low | |
| | Volume | |
| Park Management #24374 | | |
| 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: | | |

Certificate Requirements:Course IDCourse TitleVOC AGR01Horticultural Social

| GR01 | Horticultural Science |
|------|--|
| GR04 | Park Management |
| GR05 | Park Facilities |
| GR24 | Integrated Pest Management |
| GR30 | Ornamental Plants – Trees and Woody Shrubs |
| GR39 | Turf Grass Production and Management |
| GR51 | Tractor and Landscape Equipment Operations |
| GR62 | Landscape Irrigation — Design and Installation |
| GR63 | Landscape Irrigation System Management |
| GR75 | Urban Arboriculture |
| | |

Pet Science #24172

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:

| Course ID | Course Title |
|-----------|--|
| VOC AGN01 | Animal Science |
| VOC AGN02 | Animal Nutrition |
| VOC AGN51 | Animal Handling and Restraint |
| VOC AGN94 | Animal Breeding |
| VOC AGL96 | Animal Sanitation and Disease Control |
| VOC AGP70 | Pet Shop Management |
| 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 #24075

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:

CONTINUING EDUCATION

| 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 #24215

This certificate is designed to give students basic skills in the repair and maintenance of trees.

Certificate Requirements:

| 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 #24108

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 #24110

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 #24249

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 Requirements:

Completion of: Business Management – Level 1 Business Management – Level 2

PLUS the following:

| 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 #24320

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 Tit

VOC

VOC

VOC

| rse ID | Course Title |
|--------|--------------------------------------|
| BM20 | Principles of Business |
| BM61 | Business Organization and Management |
| BM62 | Human Resource Management |

International Business – Level 1 #24107

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 Requirements:

| Course ID | Course Title |
|-----------|--------------------------------------|
| VOC BM20 | Principles of Business |
| VOC BM51 | Principles of International Business |
| VOC BS36 | Principles of Marketing |

International Business – Level 2 #24431

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:

VOC BS70

Course ID Course Title

- VOC BM61 Business Organization and Management
- VOC BM66 Small Business Management
 - International Marketing Concepts

Retail Management – Level 1 #24418

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 Requirements:

| 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 #24359

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 following:

| 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 #24383

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 BO26 | Oral Communications for Business |

Small Business Management – Level 1 #24035

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

#24034

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 following:

| Course ID | Course Title |
|-----------|-----------------------------|
| VOC BM60 | Human Relations in Business |
| | |

| DIVIOU | Human Nelations in Dusiness |
|--------|--------------------------------------|
| BM61 | Business Organization and Management |
| BM62 | Human Resource Management |
| | |

Small Business Management – Level 3

#24034

VOC

VOC

Upon completion of the Small 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 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 business career.

Certificate Requirements:

| Completion of: | |
|--|--|
| Small Business Management – Levels 1 and 2 | |

PLUS the following:

| Course ID | Course Title |
|-----------|---|
| VOC BA07 | Principles of Accounting – Financial |
| VOC BM10 | Principles of Continuous Quality Improvement (CQI) |
| VOC CSB15 | Microcomputer Applications |

OCCUPATIONAL – ELECTRONICS

Computer and Networking Technology – Level I #24059

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 Reauirements:

| 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 #24284

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 #24162

This certificate prepares students to enter the electronics field as assembly and fabrication technicians.

Certificate Requirements:

| Course ID | Course Title |
|-----------|--|
| VOC EL50A | Electronic Circuits (DC) |
| VOC EL50B | Electronic Circuits (AC) |
| VOC EST50 | Electrical Fundamentals for Cable Installations |
| VOC EL61 | Electronic Assembly and Fabrication |
| VOC EL62 | Advanced Surface Mount Assembly and Rework |

Electronic Systems Technology – Level 1 #24363

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:

| 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 Microcomputer Microcomputer Applications |
| | |

Electronic Systems Technology – Level 2 #24416 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 Reauirements:** Completion of: Electronic Systems Technology – Level 1 PLUS the followina:

| 1 24 | <i>y y y y y y y y y y</i> | ny. |
|-------------|----------------------------|--|
| C οι | urse ID | Course Title |
| VO | C EST56 | Home Theater and Home Automation Systems |
| VO | C EST62 | Electronic Troubleshooting – 1 |
| V0(| CTCH60 | Customer Relations for the Technician |
| V0(| C EST64 | Electronic Troubleshooting – 2 |
| V0 | C EST70 | C-7 Low Voltage Systems License Preparation |
| VO | C EL61 | Electronic Assembly and Fabrication |
| VO | C EL62 | Advanced Surface Mount Assembly and Rework |

Electronic Technology #24073

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 Reauirements:

Course ID **Course Title** VOC EL11 Technical Applications in Microcomputers 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 TCH60 Customer Relations for the Technician

Electronics and Computer – **Engineering Technology** #24171

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

| 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 EL54A | Industrial Electronics |
| VOC EL54B | Industrial Electronic Systems |
| VOC EL55 | Microwave Communications |
| VOC EL56 | Digital Electronics |
| VOC EL61 | Electronics Assembly and Fabrication |
| VOC EL74 | Microprocessor Systems |
| VOC TCH60 | Customer Relations for the Technician |
| Recommended | Electives: |
| VOC EDT11 | Technical Engineering Drawing I |
| | Advanced Curfe comparent Accomply and |

| VOC EDT11 | Technical Engineering Drawing I |
|-----------|-------------------------------------|
| VOC EL62 | Advanced Surface mount Assembly and |
| | Rework |
| VOC EL76 | Radio Telephone Communications |

Electronics Communications #24210

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 #24319

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:

| Course ID | Course Title | Hours |
|-----------|--|--------|
| VOC EL11 | Technical Applications in Microcom | puters |
| VOC EL12 | Computer Simulation and Troubleshooting | |
| VOC EL50A | Electronic Circuits (DC) | |
| VOC EL50B | Electronic Circuits (AC) | |
| VOC EL51 | Electronic Devices | |
| VOC EL54A | Industrial Electronics | |
| VOC EL54B | Industrial Electronic Systems | |
| VOC EL56 | Digital Electronics | |
| VOC EL61 | Electronics Assembly and Fabricatio | n |
| VOC TCH60 | Customer Relations for the Technicia | an |

OCCUPATIONAL – HEALTH CAREERS

Certified Nursing and Acute Care Nursing Assistant

#24400 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 ID | Course Title |
|-----------|--------------------------------|
| VOC HTH01 | Certified Nursing Assistant |
| VOC HTH04 | Acute Care Nursing Assistant |
| VOC HTH05 | Health 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) 274-4788.

Health Care Interpreting #24056

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 ne | ecessary 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 co | baching 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 first-come, first served basis for eligible candidates attending the meeting.

For further information and mailed announcements of meeting dates, call VESL Registration at (909) 274-5236.

OCCUPATIONAL – MANUFACTURING TECHNOLOGY

Manufacturing Technology #24070

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.

Certificate Requirements:

| 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 #24212

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 #24251

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

#24178

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: Course ID Course Tit

| Course ID | Course Title |
|-----------|---|
| VOC MF11 | Manufacturing Processes I |
| VOC MF39 | SurfCAM I |
| VOC MF39B | SurfCAM II |
| VOC MF85 | Manual CNC (Computerized Numerical Control) Operations |

OCCUPATIONAL – OFFICE TECHNOLOGY

Administrative Assistant – Level I #24061

Prepares students for entry-level clerical positions where keyboarding is the primary function.

Certificate Requirements:

| Course ID | Course Title |
|-----------|---------------------------------|
| VOC B005 | Business English |
| VOC CS11 | Computer Keyboarding OR |
| VOC CS11A | Computer Keyboarding AND |
| VOC CS11B | Computer Keyboarding |
| VOC CP12 | Office Computer Applications OR |
| VOC CSB15 | Microcomputer Applications |
| VOC CS41 | Office Management Skills |
| | |

Administrative Assistant – Level 2 #24066

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 CS15 | Intermediate Computer Keyboarding |
| VOC CSB31 | Word for the Business Professional |
| | <u>or</u> |
| VOC CS41 | Transcription Techniques |

Data Entry #24287

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 Requirements:

| Course ID | Course Title |
|-----------|-----------------------------------|
| VOC CS15 | Intermediate Computer Keyboarding |
| VOC CP12 | Office Computer Applications |
| | <u>or</u> |
| VOC CSB15 | Microcomputer Applications |
| VOC CS21 | Data Entry |

Office Computer Applications #24401

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. Cortificato Doquiromonto

| 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 #24402

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 | Photoshop Imagery |
| VOC GRP12 | Photoshop Imagery Extended |
| VOC GRP14 | Digital Color Management |
| VOC GRP16 | Illustrator Graphics |

VOC GRP20 **Multimedia Graphics** 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 CSB16 **Operating the Macintosh Computer** VOC GRP18 3D Graphic Imagery Laboratory Studies: Black and White VOC PHO01 Photography **VOC PHO02** Laboratory Studies: Color Photography VOC PHO04
 - **Digital Cameras and Composition**

Photography #24245

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 Reauirements:

Course Title Course ID

| course is | course mile | |
|--|---|--|
| VOC GRP10 | Photoshop Imagery | |
| VOC PH010 | Basic Digital and Film Photography | |
| VOC PH011 | Advanced Professional Photography | |
| VOC PH012 | Photographic Alternatives | |
| VOC PHO21 | Exploring Color Photography | |
| VOC PH016 | Fashion Photography | |
| VOC PH018 | Portraiture and Wedding Photography | |
| VOC PH017 | Photocommunication | |
| VOC PHO20 | Color Photography | |
| VOC PHO28 | Photography Portfolio Development | |
| VOC PH030 | Commercial and Illustrative Photography | |
| 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 Advanced Photo Editing with Photoshop Laboratory Studios: Plack and White VOC PHO01

| Photography |
|---------------------------------------|
| Laboratory Studies: Color Photography |
| History of Photography |
| |

OCCUPATIONAL – WELDING TECHNOLOGIES

Welding

#24373

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. Intermediate ARC Welding VOC WL70B

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 Print Reading and Computations for VOC WL60 Welders V0C WI 70C Certification for Welders

Licensed Welder #24223

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: Course ID **Course Title** VOC WL40 Introduction to Welding VOC WL

VOC WL

VOC WL

| | 5 |
|-----|----------------------------|
| 50 | Oxyacetylene Welding |
| 51 | Basic Electric Arc Welding |
| 53A | 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 #24406

Preparation as a Licensed Welder with additional skills and theoretical development in automotive welding, cutting and modification.

Certificate Requirements:

Completion of: Licensed Welder Certificate

PLUS the following:

Course ID **Course Title** VOC WL91 Automotive Welding, Cutting and Modification

Welder with Concentration in **Gas Tungsten ARC Welding** #24380

Preparation as a Licensed Welder with additional skills and theoretical development in gas tungsten ARC Welding.

Certificate Requirements:

Completion of:

Licensed Welder Certificate

| PLUS the follow | | |
|-----------------|--------------------------|-------|
| Course ID | Course Title | Hours |
| VOC WLD90A | Gas Tungsten ARC Welding | 54 |

Welder with Concentration in Semiautomatic ARC Welding #24379

Preparation as a Licensed Welder with additional skills and theoretical development in Semiautomatic ARC Welding.

Certificate Reauirements: Completion of: Licensed Welder Certificate

PLUS the followina:

Course ID **Course Title** VOC WL90B Semiautomatic ARC Welding Process

NONCREDIT COURSE LISTINGS

Basic Skills

| Adult Basic Education 225 |
|--|
| Adult Basic Education – Leadership Development 225 |
| Basic Skills Development – Reading & Writing 227 |
| Basic Skills Foundation |
| Career Development 225 |
| Career Information and Guidance 225 |
| Career/Life Planning 225 |
| Developmental Mathematics – Concepts and Application 227 |
| Guidance and Orientation to Special Programs 225 |
| Re-Entry Work Skills Needed for Today's Workforce 225 |

Basic Skills – GED Preparation

| GED Preparation: Mathematics | 225 |
|---|-----|
| GED Preparation: Language Arts, Reading | 225 |
| GED Preparation: Science | 225 |
| GED Preparation: Social Studies | 225 |
| GED Preparation: Language Arts, Writing | 225 |

Basic Skills – Review

| Improving Reading Comprehension2 | 27 |
|----------------------------------|----|
| Improving Writing 2 | 27 |
| Language Skills Laboratory 2 | 27 |
| Learning Support Laboratory 2 | |
| Math Skills Review 2 | 27 |
| Personal Computer Applications 2 | 27 |
| Reading Acceleration | 27 |
| Short-Term Review | |

Basic Skills – Secondary Education (High School)

| Academic Decathlon | |
|---------------------------------------|-----|
| Algebra 1 | 5 |
| Algebra 2 | |
| Art and Creative Expression | 5 |
| Art 2 | 5 |
| Biology | 5 |
| CAHSEE Prep — English Language Arts | 5 |
| CAHSEE Prep — Mathematics | 5 |
| Chemistry | 5 |
| Chinese 1 | 5 |
| Civics/American Government | 5 |
| Computer Technology 225 | 5 |
| Diploma and Referral Program Learning | 5 |
| Earth Science | 5 |
| Economics | i l |

| English 1 | 226 |
|--|-----|
| English 2 | 226 |
| English 3 | |
| English 4 | |
| Expository Writing | |
| Expository Writing and Critical Reading | |
| Geography | 226 |
| Geometry | 226 |
| Graphics/Printing, Advanced | |
| Health Education | |
| Life Science | |
| Music Appreciation | |
| Natural Science 1 | |
| Philosophy | |
| Physical Science | |
| Planning and Guidance | |
| Pre-Algebra | |
| Psychology | |
| Study Skills | |
| Sociology | 227 |
| Spanish 1 – Conversation and Writing | 227 |
| Spanish 2 | |
| Speech and Communication | |
| Topics in Algebra 2 | |
| Topics in Geometry | |
| Typing/Keyboarding | |
| United States History | |
| World History | 227 |
| Basic Skills – Tutoring | |
| All Subjects Tutoring | |
| Tutoring Techniques | |
| | 220 |
| Citizenship | |
| Citizenship for Naturalization | 228 |
| Disabled Students | |
| Adaptive Academic Preparation | 228 |
| Clinical Speech Instruction | |
| High Tech Center Tutorial/Assistance Class | |
| Lifelong Learning for the Special Needs Population | |
| | |
| English as a Second Language (ESL) | |
| English for Specific Uses | |
| For Health Professionals | 228 |

| Levels 1-6 and Pre-Level 1 228 Speaking A , B and C 228 Writing A, B and C 228 TOEFL Prep 228 |
|--|
| Occupational – Administrative Justice |
| Administration of Justice Report Writing230Administration of the Justice System230Community Relations230Concepts of Criminal Law230Concepts of Enforcement Services230Concepts of Traffic Services230Legal Aspects of Evidence230Narcotics Investigation230Principles and Procedures of Justice System230Street Gangs and Law Enforcement230Vice Control230 |
| Occupational – Agricultural Science |
| Animal Breeding230Animal Handling and Restraint230Animal Sanitation and Disease Control231Animal Science230Animal Nutrition230Artificial Insemination of Livestock231Aviculture – Cage and Aviary Birds232Beef Production231Canine Management232Diesel Engine Repair231Engine Diagnostics232Exotic Animal Management230Feline Management232Floral Design 1, 2 and 3231Food Production, Land Use and Politics – A Global Perspective230 |
| Home Gardening |
| Horse Behavior and Training230Horse Hoof Care230Horse Ranch Management230Horse Production230Horticultural Science231Hydraulics231 |
| Interior Landscaping |
| Integrated Pest Management 231 Landscape Construction Fundamentals 232 |

NONCREDIT COURSE LISTINGS (continued)

| Landscape Design | Continuous Quality Improvement (CQI), Principles of | Assumptional formestional friends |
|--|---|--|
| Landscape Hardscape Applications | Continuous Quality Improvement (CQI), Team Building | Occupational – Correctional Science |
| Landscaping and Nursery Management | E-Commerce, Principles of | Control and Supervision of the Offender236 |
| Landscaping Laws – Contracting and Estimating | Exporting and Importing, Principles of | Correctional Law |
| Landscape Irrigation – Design and Installation | Financial Planning | Correctional Science, Introduction to |
| Landscape Irrigation – Drip and Low Volume | Human Relations in Business 234 | Crime and Delinquency |
| Landscape Irrigation – Systems Management | Human Resource Management 234 | Ethnic Relations in Corrections |
| Livestock Judging and Selection | International Business, Principles of | Interviewing and Counseling in Corrections |
| Ornamental Plants – Herbaceous | International Marketing Concepts | Probation and Parole236 |
| Ornamental Plants – Trees and Woody Shrubs | Marketing, Principles of | Violent Offender, The |
| Park Facilities | Microcomputer Applications | Occupational – Electronics |
| Park Management | Oral Communications for Business | |
| Pet Shop Management | Professional Selling | Communications Circuits Theory |
| Plant Propagation/Greenhouse Management | Real Estate Practice 234 | Computer Simulation and Troubleshooting |
| Power Train Repair | Retail Store Management and Merchandising | Customer Relations for the Technician |
| Reptile Management | Small Business Management | Digital Electronics |
| Sheep Production | Special Issues in Business | Electronic Devices Theory |
| Small Engine Repair | Special Issues in Marketing | Electronic Assembly and Fabrication Lecture/Laboratory |
| Soil Science and Management | Spelling and Vocabulary for Success | Electronics Technology, Laboratory Studies in |
| Sports Turf Management | Using Microcomputers in Financial Accounting | Electronics Theory |
| Swine Production | Using Microcomputers in Managerial Accounting | Industrial Circuits Theory |
| Tractor and Landscape Equipment Operations | Ten-Key Calculations | Industrial Electronic Systems |
| Tropical and Coldwater Fish Management | | Mathematics of Electronics – AC |
| Turf Grass Production and Management | Occupational – Computer Operations | Mathematics of Electronics – DC |
| Urban Arboriculture | Basic Computing, Levels 1, 2, and 3 | Mechatronics, An Introduction |
| | Computer Keyboarding | Microprocessor Systems |
| Occupational – Architectural Technology | Computer Keyboarding, Intermediate | Microwave Communications |
| Architectural Computer Aided Design (CAD) Elements | Computer Laboratory | Microcomputers, Technical Applications |
| Architectural Computer Aided Design (CAD), Advanced | Creative Computing | Radio/Telephone Communications |
| Architectural Computer Aided Design (CAD) 3-D Illustration | Data Entry | Surface Mount Assembly and Rework, Advanced |
| and Animation | Desktop Publishing Software | Occupational – Electronics & Computer Technology |
| Architectural Drawing | Internet Research, Introduction to | |
| Basic CAD and Computer Application | Macintosh Applications | C-7 Low Voltage Systems License Preparation |
| | Microcomputer Applications | Cabling and Wiring Standards |
| Occupational – Business | Microsoft Powerpoint | Electrical Fundamentals for Cable Installation |
| Accounting, Fundamentals of | Microsoft Word | Electronic Troubleshooting 1 and 2 |
| Accounting, Payroll and Tax | Office Management Skills | Fabrication Techniques for Cable Installation 237 |
| Accounting, Principles of Financial | Web Site Development | Home Electronic Systems |
| Bookkeeping – Accounting | | Occupational – Engineering Design |
| Business Communications | Occupational – Computer Technology | Basic CAD and Computer Applications |
| Business English | A+ Certification Preparation | Civil Engineering Technology and CAD |
| Business Mathematics | Network+ Certification Preparation | Engineering CAD Applications |
| Business Organization and Management | PC Operating Systems | Engineering CAD Applications |
| Business Vocabulary | PC Servicing | Mechanical Design – Geometric Dimensioning and Tolerancing 237 |
| | | \sim we have a design - become or dimensioning and interacting $13/$ |
| Business, Principles of | PC Troubleshooting | Technical Engineering Drawing 1 and 2 |

Occupational – Fashion Design

| Clothing Construction 1 and 2 | 237 |
|---|-----|
| Fashion, Introduction to | 237 |
| Fashion Computer Assisted Drawing | 238 |
| Fashion Design and Product Development 1, 2 and 3 | 238 |
| Fashion Design by Draping | |
| Fashion Patternmaking by Computer | 238 |
| Fashion Strategies | 237 |
| History of Costume Fashion | |
| Illustration for Fashion and Costume Design | 237 |
| Patternmaking 1 | 237 |
| Patternmaking 2 | |
| Retail Store Management and Merchandising | 238 |
| Textiles | 237 |
| | |

Occupational – Geography

Occupational – Health

| Asuto Cana Numine Assistant | าวก |
|--|-----|
| Acute Care Nursing Assistant | 238 |
| Anatomy and Physiology, Basic | 238 |
| BLS Heartsaver Course – Adult | 238 |
| Certified Nursing Assistant | 238 |
| Geriatric Resource Specialist | 238 |
| Health Careers Resource Center | 238 |
| Health Care Interpreting, 1 and 2 | 238 |
| Health Care Interpreting, Externship | 238 |
| Health Care Interpreting Seminar | 239 |
| In-Home Care of Alzheimer's and Dementia Clients | 239 |
| Intravenous Therapy for Radiologic Technology | 239 |
| Medical Terminology | 238 |

Occupational – Hotel & Restaurant Management

| Purchasing for the Restaurant Industry | . 239 . 239 |
|--|--|
| Occupational – Interior Design Fundamentals of Interior Design | . 239 |
| Occupational – Manufacturing Technology 3-D CAD for Mechanical Modeling . AutoCAD 2-D AutoDesk Inventor Manual CNC (Computerized Numerical Control) Operations Manufacturing Processes, 1 and 2 MasterCAM 1 MasterCAM, Advanced MasterCAM Solids Mathematics and Blueprint Reading for Manufacturing Parametric Solid Modeling for Desktop, Advanced Parametric Solid Modeling for Manufacturing SurfCAM, 1 and 2 Technical Mathematics – Manufacturing Applications | . 240 . 239 . 240 . 240 . 239 . 240 . 240 . 240 . 240 . 240 . 240 . 240 . 240 |
| Occupational – Nutrition Cooking for your Heart and Health Vegetarian Cuisine | |
| Occupational – Photography & Photographics 3D Graphics Imagery Color Photography Commercial and Illustrative Photography Computer Graphics Laboratory Digital and Film Photography, Basic Digital Color Management Digital Design Systems, Introduction to Digital Photography Exploring Color Photography Fashion Photography History of Photography History of Photography Laboratory Studies in Black & White Photography Laboratory Studies in Color Photography Multimedia Graphics Photographic Alternatives | . 241 . 240 . 241 . 240 . 241 . 240 . 241 . 240 . 241 . 240 . 241 . 241 |

NONCREDIT COURSE LISTINGS (continued)

| Photography Portfolio Development 241 Photoshop Imagery 240 Photoshop Imagery Extended 240 Portraiture and Wedding Photography 241 Professional Photography, Advanced 241 |
|---|
| Occupational – Service Learning |
| Service Learning/Seminar for Health Occupations 241 Service Learning/Seminar in Community Involvement 241 Service Learning and Community Involvement 241 |
| Occupational – Stained Glass Production |
| Stained Glass, Advanced |
| Occupational – Theater & Theater Arts |
| Children's Theater242Play Rehearsal and Performance241Stagecraft241Technical Theater Practicum241Theatrical Costuming242Theatrical Make-Up241 |
| Occupational – Tutor Training |
| Introduction to Tutoring |
| Tutoring in Mathematics 242 Tutoring in Reading 242 |
| Tutoring in Mathematics |

NONCREDIT COURSE LISTINGS (continued)

| Cabinetmaking/Woodworking 242 Woodworking, Beginning 242 Woodworking, Intermediate 242 DIder Adults 229 Ceramics – Intermediate Production 229 China Painting 229 Craft Painting for Business Opportunities 229 Creative Expression through Music 229 Creative Writing (Writing your Autobiography) 229 | Decorative Art Production for Retail Sales, Intermediate 230 Decorative Art Production for Retail Sales, Intermediate 230 Drawing – Beginning through Advanced 229 Fall Prevention – Balance and Mobility 229 Healthy Aging – Principles of Slow Movement 229 Healthy Aging – Principles of Posture and Flexibility 229 Healthy Aging – Principles of Posture and Boutiques 229 Healthy Aging – Principles of Aquatic Resistance 229 Jewelry/Lapidary Production Design 230 | Jewelry Production and Design for Retail Sales |
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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.

BS GEDMA — GED Preparation: Mathematics

Improve mathematical knowledge and skills in preparation for the Math section of the General Education Development (GED) exam. Test areas include number operations, geometry, statistics and algebra.

BS GEDRD — GED Preparation: Language Arts, Reading

Improve comprehension and reading knowledge and skills in preparation for the Language Arts: Reading section of the General Education Development (GED) exam. Poetry, fiction, nonfiction, drama, art reviews and workplace documents.

BS GEDSC — GED Preparation: Science

Improve scientific knowledge and skills in preparation for the Science section of the General Education Development (GED) exam. Test areas include physics, chemistry, life science, earth science and astronomy.

BS GEDSS — GED Preparation: Social Studies

Improve historical knowledge in preparation for the social studies section of the General Education Development (GED) exam. Test areas include United States history, world history, geography, government and economics.

BS GEDWR — GED Preparation: Language Arts, Writing

Improve organizational and grammatical knowledge and skills in preparation for the Language Arts: Writing section of the General Education Development (GED) exam. Test areas include paragraph organization, sentence structure, usage, grammar mechanics and essay development.

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. CONTINUING EDUCATION

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 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 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 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 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 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 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 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

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.

This class is for students with identified disabilities to utilize adaptive hardware and software in the High Tech Center that will assist them in succeeding in other courses. Through technology provided by the HTC, student will be given support, additional resources, assistance and strategies to succeed in their other classes. This class is designed as a transition or resource class for students eligible or nearing eligibility to advancement into other Mt. SAC courses.

DSPS LRND3 — Adaptive Academic Preparation

Note: Students must see a Brain Injury Specialist in Disabled Student Programs and Services (DSP&S) and have acquired their injury after the age of 12 in order to be evaluated for the Brain Injury Program prior to registration for this class.

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.

OLDER ADULTS

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 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 —Health Aging

Healthy aging, including diet, nutrition, disease prevention, and application of physical fitness principles to maintain health while aging.

OAD MOX02 — **Healthy Aging** – **Principles of Tai Chi** Heath aging, including diet, nutrition, disease prevention, and application of Tai Chi principles to maintain health while aging.

OAD MOX04 — Healthy Aging – Principles of Yoga Health aging, including diet, nutrition, disease prevention, and application of Yoga principles to maintaining health while aging.

OAD MOX06 — **Healthy Aging** – **Principles of Aquatic Resistance** Healthy aging, including diet, nutrition disease prevention, and application of aquatic resistance principles to maintain health while aging.

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.

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-of-akind 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 stepby-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. **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 – Street Gangs and Law Enforcement

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 all-terrain 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

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 B005 — 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 BO 96A and VOC BO 96B are equivalent to VOC BO 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.

OCCUPATIONAL — COMPUTER INFORMATION SYSTEMS

VOC CS11 — Computer Keyboarding

Develops alpha and numeric keyboarding skills on a personal computer at a straight-clpy rate of 25 to 40 gross words with a predetermined error limit. Includes keyboarding of letters, tables and manuscripts. (Formerly VOC CP01)

VOC CS11A — Computer Keyboarding

Develops basic alpha and numeric keyboarding with skills on a personal computer at a straight-copy rate of 25 to 30 gross words a minute with a predetermined error limit. (Formerly VOC CP01A)

VOC CS11B — Computer Keyboarding

Develops straight-copy keyboarding rate of 25-40 gross words a minute with an error limit; includes letters, tables and reports. (Formerly VOC CP11B)

VOC CS12 — Intermediate 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. Uses word processing software to format letters, memos, reports, tables and other related business documents. (Formerly VOC CP02)

VOC CS21 — Data Entry

Data entry using a microcomputer. Includes 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. (Formerly VOC CP18)

VOC CS41 — 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. (Formerly VOC CP28)

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.

VOC CSB16 — Macintosh Applications

Macintosh computer skills including the operating system and word processing, database, spreadsheet and multimedia applications. (Formerly VOC CP10)

VOC CSB31 — Microsoft Word

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. (Formerly VOC CP20)

VOC CSB51 — Microsoft PowerPoint

Using PowerPoint to plan, design and produce effective presentations. Includes creating charts, diagrams, and storyboards; developing appropriate text content; adding sound, animation and movies. (Formerly VOC CP50)

VOC CSB61 — Desktop Publishing Software

Using desktop publishing software to integrate text and various graphic objects, design, edit and produce a variety of high-quality business publications. (Formerly VOC CP60)

VOC CSW15 — Web Site Development

Use of a professional visual Web-authoring application to plan, develop, implement, publish and maintain Web sites. Includes working with text and images, internal and external hyperlinks, image maps, tables, Cascading Style sheets, Web page content, Web forms, multimedia objects (Flash text, Flash buttons, sounds and video), interactions and behaviors, and Web page templates. Principles of Web site structures, documentation, management and maintenance will be discussed. (Formerly VOC CP13)

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, first-served. 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.

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 CNT60 — A+ Certification Preparation

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.

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+ certified will find this course invaluable.

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 Delinquency

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

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

AC circuit theory covering inductors, capacitors, impedance, filters, decibels, and resonance. Analysis involves the use of complex numbers. Stresses passive components.

CONTINUING EDUCATION

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 Electronic 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 Heartsaver 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. Prerequisites:

- 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 (ČA 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 MF10 – Mathematics & Blueprint Reading for Manufacturing Applications of mathematical pringiples, including fractions, decimals, ratio/proportion, geometry and trigonometry to manufacturing problems and their solutions. Reading and interpreting part drawings, assembly drawings and sketches used in the manufacturing industry.

VOC MF11 — Manufacturing 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 — Manufacturing 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 Computerized Numerical Control (CNC) Programming

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 — Photoshop Imagery

Adobe Photoshop software skills, techniques and digital workflow practices from digital image editing and retouching to the composited imagery commonly created for using photography, commercial design, printing and publishing, the Internet and multimedia authoring production.

VOC GRP12 — Photoshop Imagery Extended

Adobe Photoshop Extended software skills and techniques for the creative photorealistic imagery commonly used in photography, commercial design, printing and publishing, the internet and multimedia authoring production.

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 grayscale images.

VOC GRP16 — Illustrator Graphics

Adobe Illustrator software skills, techniques and digital workflow from essential digital drawing basics to creatively conceived illustrative imagery and renderings commonly created for use in commercial design, printing and publishing, the Internet and multimedia authoring production.

VOC GRP18 — 3D Graphics Imagery

3D graphics modeling software skills and production techniques from 2D orthographic drawing to the creatively conceived 3D imagery and animated environments commonly created for self-expression, entertainment, commercial design, printing and publishing, the Internet and multimedia authoring production.

VOC GRP20 — Multimedia Graphics

Multimedia graphics software skills and production techniques for combining text, image, audio, video, animation and scripting media to author multimedia projects commonly created for self-expression, entertainment, commercial design, the Internet and multimedia production.

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 guality 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 — 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 — TUTOR TRAINING

VOC TR10A — Introduction to Tutoring

Introduction to tutoring, with an emphasis on tutoring strategies, problem solving and working with a diverse student population.

VOC TR10B — Tutoring in the Language Arts

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.

VOC TR10C — Tutoring as a Supplemental Instructor

Tutoring as a Supplemental Instructor with an emphasis on tutoring in the classroom and in small groups under the supervision of a designated instructor.

VOC TR10D — Tutoring in Mathematics

Tutoring in mathematics with an emphasis on strategies to promote active learning and dealing with specific obstacles in developmental algebra.

VOC TR10R — Tutoring in Reading

Methods of assessment, management of sessions and application of strategic reading processes. This course prepares students to become reading tutors for all READ students.

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

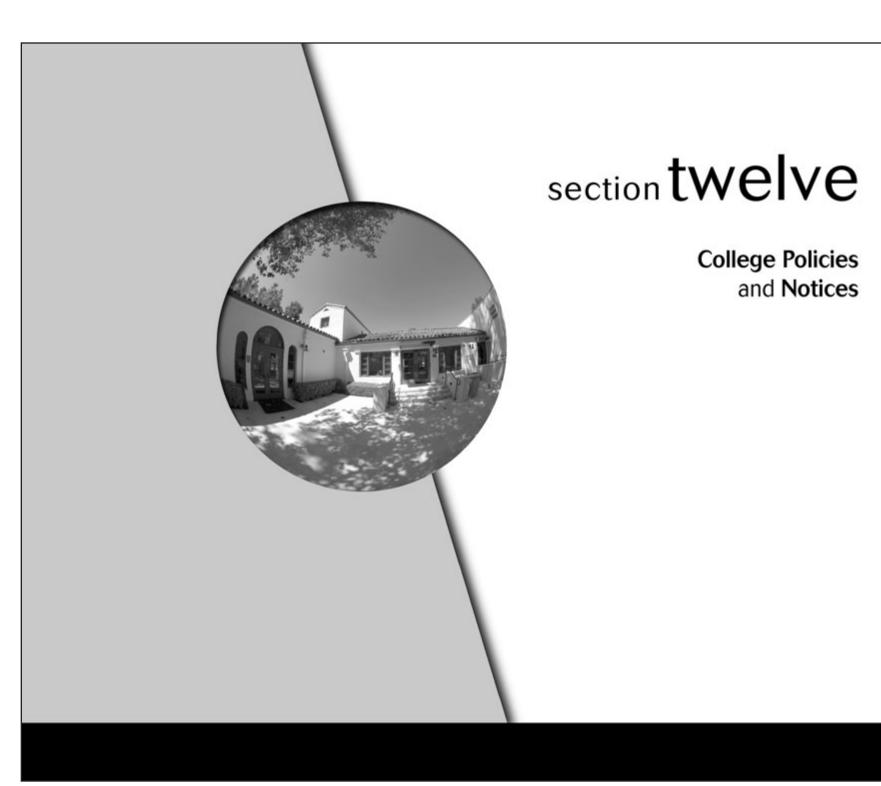
Advanced level class in Gas Tungsten Arc Welding (GTAW, also known as TIG) of steel, aluminum, CRES and exotic metals. All position welds with many surfaces and transitions.

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.



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 and Other Attendees

Classroom activities are intended to benefit those students officially registered for the class. Others are permitted to attend a regularly scheduled class meeting only in specific situations. The professor assigned to teach the class may grant permission to visit the class. Disabled Students Programs and Services (DSPS) may authorize a person to be a Personal Care Attendant (PCA) when the need for such accommodation is authorized by DSPS prior to beginning service as a PCA. Additional information regarding classroom visitors can be found in Administrative Procedure 4700.

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.

Individuals having a doctor's verification that allows them to park in zones designated as "handicapped parking" 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. Students having a current "Disabled Person" permit and placard or a "DP" license plate from the State of California Department of Motor Vehicles 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 time limited space (without having to observe the time limit specified). Everyone parking in "handicapped parking zones" must ensure that the placard or license plate is displayed properly.

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 is committed to equal opportunity in educational programs, employment, and all access to institutional programs and activities. The College provides an educational and employment environment in which no person shall be unlawfully denied full and equal access to, the benefits off, or be unlawfully subjected to discrimination on the basis of ethnic group identification, national origin, religion, age, sex or gender, sexual orientation, race, color, ancestry, medical condition, martial status, veteran status, sexual orientation, or physical or mental disability (including HIV and AIDS), or on the basis of these perceived characteristics or based on association with a person or group with one or more of these actual or perceived characteristics, in any program or activity that is administered by the College. The lack of English language skills will not be a barrier to admission.

Students who believe they have been discriminated against may begin the process with the Dean, Student Services, located in Building 9C. Students may access the Unlawful Discrimination Complaint Form at www.cccco.edu/SystemOffice/Divisions/Legal/Discrimination/tabid/294/ Default.aspx or the Student Grievance and Complaint forms at www.mtsac.edu/students/studentlife or go directly to the office of Human Resources. All complaints of unlawful discrimination or sexual harassment by students of the College will be fully investigated by Human Resources.

College employees have similar rights which can be found in the College's Board Policy and Administrative Procedures.

Annette Loria, Vice President

Human Resources/Equal Employment Opportunity Officer ADA/504 Compliance Officer Human Resources Office Ext. 4225 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.
- 2. 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.
- 9. 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.

College Policies and Notices

- 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.
- 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.

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.

Accomodations and 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 verified 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 Board Policy and Administrative Procedure for Individuals with Disabilities may be found at the following links: *www.mtsac.edu/administration/trustees/policies/bp_complete.pdf#bp5 www.mtsac.edu/administration/trustees/administrative-procedures.pdf* Student Services, AP 5140. Alternately, they are also 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.

College Policies and Notices

PUBLIC SAFETY DEPARTMENT STATISTICAL CRIME REPORT

| Violation | 2007 | 2008 | 2009 |
|----------------------------------|------|------|------|
| Non-Negligent Manslaughter | 0 | 0 | 0 |
| Negligent Manslaughter | 0 | 0 | 0 |
| Sex Offenses - Forcible | 0 | 0 | 0 |
| Sex Offenses - Non-Forcible | 1 | 0 | 0 |
| Robbery | 2 | 2 | б |
| Aggravated Assault | 14 | 15 | 9 |
| Burglary | 24 | 21 | 27 |
| Motor Vehicle Theft (GTA) | 16 | 21 | 12 |
| Theft from Vehicle | 20 | 12 | 45 |
| Theft | 68 | 53 | 53 |
| Arson | 0 | 0 | 0 |
| Vandalism | 26 | 14 | 31 |
| Liquor Law Violations | 1 | 3 | 4 |
| Drug Law Violations | 4 | 2 | 1 |
| Illegal Weapons Violations | 2 | 1 | 0 |
| Hate Crimes - Race | 0 | 0 | 0 |
| Hate Crimes - Gender | 0 | 0 | 0 |
| Hate Crimes - Religion | 0 | 0 | 0 |
| Hate Crimes - Sexual Orientation | 0 | 0 | 0 |
| Hate Crimes - Ethnicity | 0 | 0 | 0 |
| Hate Crimes - Disability | 0 | 0 | 0 |
| Yearly Totals | 178 | 144 | 188 |

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 above.

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, 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.
- 3. 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,

College Policies and Notices

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

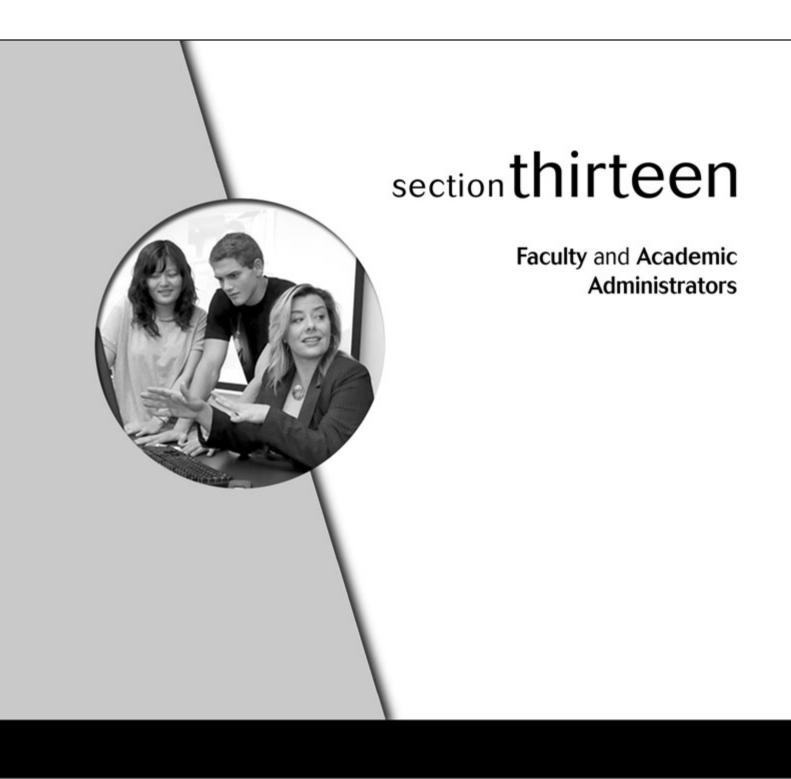
Educational records or personal information transferred to other institutions or agencies will not be transferred to a third party without the written consent of the student.

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.



Α

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)

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

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)

Computer Information Systems B.S., Indiana University M.S., California State University, Fullerton

Ano, Gene (2006)

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.N., Mt. San Antonio College B.S.N., California State University, Fullerton M.S.N., California State University, Los Angeles PHN Certificate FPN. Azusa Pacific University

Astorga, Juan Carlos (2005) Student Services-Upward Bound

B.A., University of California, San Diego M.A., San Diego State University Ed.D., California State University, Fullerton

Avila, Rocio (2006) English, Literature & Journalism

B.A., California State Polytechnic University, Pomona M.A., California State University, Fullerton

В

Bacigalupi, Stacy (2006) Psychology, Education B.A., University of California, Santa Barbara M.A., California State University, Fullerton

Barr, Dustin (2008) Music B.M., M.M., 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 Ed.D., California State University, Long Beach

Beydler, David (2011)

Mathematics B.S., Harvey Mudd M.S., California State University, Los Angeles

Birca, Alina (2005)

Mathematics, Computer Science B.S., University Alexsandru Ioan Cuza of Iasi M.A., California State University, San Bernardino

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

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.S., Plattsburgh State University M.S.N., 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

Bro, Glenda (1991) American Language B.A., Dana College M.S., University of Nebraska TESOL Certificate, California State University, Fullerton English, Literature & Journalism B.A., M.A., California State University, Fullerton Brown, Ronald (2006) Fine Arts B.F.A., M.F.A., Art Center College of Design

Brouillette, Ronald (1989)

Burgoon, Steve (2002) Commercial and Entertainment Arts B.A., University of Phoenix M.A., California State Polytechnic University, Pomona

Burgos, Matthew (2010) Theater B.A., University of Wisconsin-LaCrosse M.F.A., Florida State University

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

Butler, Thomas (2011) Fine Arts B.A. Laguna College of Art and Design M.F.A., California State University, Long Beach

C

Calzada, Silver (1999) *Counseling* B.A., Pitzer College M.A.T., Harvard University

Campbell, Micahel (2011) Mathematics B.A., B.S., California State University, Fullerton M.A., Ph.D., University of California, Los Angeles

Cannon, Holly (1988) English, Literature & Journalism B.A., M.A., California State University, Northridge

Cannon, Kathleen (2005) History & Art History B.A., M.A., M.F.A., Ph.D., University of California, Los Angeles

Cantrell, David (2011) Communication B.S., University of California, San Diego M.S., California State University, Fullerton

Castillejos, Manuel (1989) Foreign Languages B.A., California State University, San Diego M.A., California State University, Fullerton

Caveness, Allen (2009) Physical Education / Head Coach, Men's Basketball B.A., Saint Mary's College of California M.A., Azusa Pacific University

Cavion, Deborah (1994) Interim Associate Dean, Physical Education / Associate Athletic Director 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 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 M. (2000) Dean, Library & Learning Resources B.A., University of California, Los Angeles M.P.A., California Lutheran University M.A., California State University, Los Angeles

Chevalier, Jason (2000) Music B.A., M.A., California State University, Fullerton Ed.D., Capella University

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)

Bioloaical 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

Curran, Karen O'Brien (1998)

Child Development B.S., California State University, Fullerton M.S., Pacific Oaks College

D

Daland, William (2005) Counselina 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

Degtvareva, 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

Denny, Joseph (2010)

Electronics and Computer Technology B.A., Azusa Pacific University B.S., California Polytechnic State University, Pomona

DePaola, Gina (1991)

Enalish, Literature & Journalism B.S., Metropolitan State College, Denver M.S., California State University, Long Beach

Diem, Andrea (1991) Socioloav, Philosophy B.A., University of California, San Diego M.A., Ph.D., University of California, Santa

Barbara Di Mauro, Eileen (1991) Chemistrv 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) Sian Lanauaae

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

E

Earhart, Kimberly (2005) History & Art History A.A., Riverside Community College B.A., M.A., Ph.D., University of California, Riverside | Enke, Gary D. (1990)

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 & Desian 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

Eislev, Beniamin 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) Computer Information Systems 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., Psv.D., Biola University, La Mirada

Enalish. Literature & Journalism B.A., St. Joseph College M.A., Claremont Graduate School

Esslinger, Sandra (2002) History & Art History 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 Member, Caifornia Bar Association

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.

Faraone, Teresa M. (1999) Consumer & Design Technologies B.A., M.A., California State University, Los Angeles

Farve, Debra (1988) English, Literature & Journalism B.A., Xavier University M.A., University of Notre Dame Ed.D., University of Southern California

Felix, Diana (2011) Counselina B.A., University of California, Santa Barbara

M.S., California State University, Long Beach

FioRito, Arleen M. (2000) Nursing A.S., A.A., Mt. San Antonio College P.H.N., B.S.N., M.S.N., CNS, California State University, Dominguez Hills FNP, Azusa Pacific University

THE FACULTY

Fisher, Damany (2009) History & Art History B.A., University of California, Davis M.A., Ph.D., University of California, Berkeley

Ford, Kelly (2001)

Physical Education / Head Coach, Women's Softball A.S., Central Arizona College B.S., University of Oklahoma M.Ed., Azusa Pacific University

Foster, Dyrell W. (2004) Associate Dean, Counseling B.S. University of California, Davis M.S., California State University, Fullerton Ed.D., University of Southern California

Frahs, Paul (2004) English, Literature & Journalism B.A., State University College, Potsdam, New York M.A., University of California, Irvine

Franko, Joseph (2002) Mathematics, Computer Science B.S., Iowa State University M.S., California Polytechnic University, Pomona

Frickert, Allison (2008) History & Art History B.A., M.A., California State University, Fullerton

Fulbright Dennis, Wanda (1990) Counseling B.A., Fresno Pacific College M.S., California State University, Los Angeles Ed.D., University of La Verne

G

Gagnon, Cathy (1987) Medical Services A.A., A.S., Mt. San Antonio College B.S.N., M.S.N., California State University, Dominguez Hills CCRN, CEN, MICN Credentials

Galbraith, Jennifer (1988) Mathematics, Computer Science A.A., Chaffey College B.S., M.S., California State Polytechnic University, Pomona Gallarde, Marlene (2007) Sociology, Philosophy B.A., M.A., California State University, Fullerton

Garcia, Daniel (2007) Welding B.S., Azusa Pacific University, Azusa

Garrett, Jean (1989) English, Literature & Journalism A.A., Mt. San Antonio College B.A., M.A., California State Polytechnic University, Pomona

Garrett, LeAnn (2001) Librarian B.S., University of Wisconsin – Stout M.L.I.S., Ph.D., University of Hawaii at Manoa

Garwick, Jennifer (2006) Agricultural Sciences B.S., California State Polytechnic University, Pomona

Gau, Jim (2000) Computer Information Systems B.E., Feng Chia University M.B.A., California Lutheran University

Goff, Michael (1998) Physical Education / Head Coach, Men's Cross Country / Head Coach, Women's Track and Field A.A., Bakersfield College B.A., M.A., Whittier College

Golestaneh, Kamran (2008) Chemistry B.S., B.S., M.S., California State Polytechnic University, Pomona

Gomez, Francisco (2011) English, Literature and Journalism B.A., California State University, Fullerton M.F.A., Chapman University

Gonzales, Barbara (2002) Learning Assistance A.A., Mt. San Antonio College B.A., M.Ed., University of La Verne Gonzalez, Gail (1999)

Mental Health Technology B.S.N., Montana State University

Graham, Chris Giles (1991) Mathematics, Computer Science B.A., Pomona College M.S., Chadron State College M.S., California State University, Los Angeles Ph.D., Claremont Graduate University

Greco, Victoria (1999) Disabled Student Programs & Services B.A., California State University, Fullerton M.A., California State University, San Bernardino

Griffith, Hugh M. (1998) Mathematics, Computer Science B.A., University of California, Berkeley M.S., California State University, Los Angeles

Grimes-Hillman, Michelle (2000) Psychology, Education B.A., M.A., California State University, Fullerton

Guth, Scott A. (1990) Mathematics, Computer Science A.A., San Bernardino Valley College B.S., M.S., California Polytechnic State University, San Luis Obispo

Н

Hagner, Dirk (2007) Fine Arts M.A., University of Essen, Duisburg, Germany

Halabi, Solene (2008) Foreign Languages M.A., California State University, Fullerton

Hall, Martha (2007) Learning Assistance B.A., University of California, Riverside M.A., Claremont Graduate University

Hall, Sushma S. (1990) Sociology, Philosophy B.A., M.A., University of Hawaii

Hanson, Grace (1996)

Director, Disabled Student Programs & Services B.A., M.A., California State University, Long Beach Transition Services for Individual with Disabilities Certificate

Harper, Michael W. (2000)

English, Literature & Journalism B.A., M.A., San Diego State University

Hartman, Laurie (2007) Commercial and Entertainment Arts B.F.A., Rochester Institute of Technology

Hatch, Rebecca (2001)

Sociology, Philosophy B.A., California Lutheran University M.S., Ph.D., University of Southern California

Heard, Lance (2008)

Public Services B.S., United States Military Academy, West Point M.S., University of Cincinnati

Henry, Anthony (2007)

Child Development B.A., Humbolt State University M.A., California State University, Los Angeles M.A., Azusa Pacific University

Hernandez, Alina (1988)

Counseling A.A., Santa Ana Community College B.A., M.A., California State University, Fullerton Ph.D., University of Southern California

Hernandez, Corie (2011) Psychiatric Technician

B.S., California State University, Fullerton

Hernandez, Cristina M. (1997) History & Art History B.A., M.A., University of California, Santa Barbara

Herrera, Irene (2000) Director, EOPS B.S., California State University, Fullerton M.S., California State University, Los Angeles

Hight, Lynette C. (1971) English, Literature & Journalism B.A., M.A., California State University, Los Angeles

Hill-Enriquez, Evelyn (1991) American Language A.A., Mt. San Antonio College B.A., M.A., California State University, Fullerton TESOL Certificate

Hischar, Paul (1998)

Accounting & Management B.S., California State Polytechnic University, Pomona M.B.A., West Coast University

Ho, Robert I. (1984) Architecture & Engineering Design Technology B.S., Cheng Kung University M.Arch., University of Minnesota NCARB, National Council of Architectural Registration Boards California Licensed Architect

Hoffman, Harlan (2005)

History, Art History, Geography, Political Science B.A., M.A., California State University, Fullerton Ph.D., University of California, Riverside

Hoffman, Ruth Jean (1997) Agricultural Sciences A.S., Mt. San Antonio College B.V.E., California State University, San Bernardino

Hoggan, Lynda Smith (1996)

Biological Sciences B.S., Slippery Rock University M.P.H., University of California, Los Angeles

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Section 13 257

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INDEX

Α

ability to benefit test.9 academic adjustments, for students with disabilities, 246 academic distinction. 15 academic freedom, 11 academic grievances, 246 academic honesty policy, 244 academic honors, 15 academic policies and requirements, 10–16 academic probation, 16 academic renewal, 16 academic standards. 16 access to educational records, 247 accounting certificates, 32, 54 course descriptions, 131–132 maior, 69 occupational certificates, 214 accreditation, i achievement, certificates of, 32-54 administration administrative services staff, 2 human resources staff. 2 information and educational technology staff, 2 instruction staff, 2 president's office staff, 2 student services staff, 2-3 administration of justice, law enforcement courses, 110 administrative assistant certificates, 32-33, 54 major, 69 occupational training certificates, 219 administrative justice, noncredit course descriptions, 231 admissions and registration. 6-8 acceptance of domestic coursework from accredited colleges and universities in the United States, 7 acceptance of international coursework from accredited colleges and universities outside the United States, 7 admission of international students, 7-8 application to the college, 6 articulation with high schools, ROPs, and adult schools, 7 concurrent enrollment for K-12 students (special admits), 6 continuing education, 210 criteria for determination of legal residence, 6 enrollment fees and expenses, 8 evaluation of other college coursework, 7 registration, 8 residence classification, 6 residence classification appeal, 6 residency requirements (for fee purposes), 6 adult education. See continuing education (adult education) advanced placement (AP) tests college credit for 13 in CSU general education--breadth certification, 14 advertising design and illustration major. 24 advisement advising center, 108 educational, 210 advisory prerequisite, 108 advisory to a course, 9 aeronautics course descriptions, 110-111 aesthetics for technology certificate, 24

agricultural science noncredit course descriptions, 231–233 occupational training certificates, 214-216 agriculture course descriptions animal health technology, 111–112 animal science, general, 112 forestry, conservation, 112 general subjects, 112 livestock production, 112–113 ornamental horticulture, 113–115 pet science, 115 agri-technology major, 69 air conditioning and refrigeration certificate, 33 course descriptions, 115-116 major, 69 aircraft maintenance technology course descriptions, 117–119 day and evening certificates, 34 aircraft powerplant maintenance technology, day and evening, certificate, 33–34 airframe and aircraft powerplant maintenance technology, day and evening, major, 70 air traffic control course descriptions, 116–117 alcohol and other drugs policies, 244 alcohol/drug counseling certificate, 34–35 course descriptions, 119 major, 70–71 Alpha Gamma Sigma, 15 American language course descriptions, 119–120 anatomy and physiology course descriptions, 120-121 animal health technology course descriptions, 111–112 animal science, general, course descriptions, 112 animals on campus, policy, 244 animation certificates, 35 course descriptions, 122-124 major, 71 anthropology course descriptions, 121 appeals process dismissal, 16 petition for exceptional action, 11 placement.9 residence classification, 6 application to the college. 6 for graduation, 64 applied laboratory science technology (ALST), 71 aquatics course descriptions, 184-185 Arabic course descriptions, 121 architectural technology certificates, 35-36 computer aided graphics, visual arts and design programs, 24 course descriptions, 121-122 design concentration, major, 71–72 noncredit course descriptions, 233 technology concentration, major, 72 architecture & engineering design technology department, 24

art advertising design/graphics course descriptions, 124–125 aesthetics for technology certificate, 24 animation course descriptions, 122-124 art history course description, 128–129 basic studio arts course descriptions, 125 computer aided graphics, visual arts and design programs, 24 gallery and professional practices course descriptions, 125 special studio arts courses, 125 three-dimensional studio arts course descriptions, 126–127 two-dimensional studio arts courses, 127–128 art gallery, 27 articulation with high schools, ROP's, and adult schools, 7 arts division. 3 assessment and placement, 8-9 appeals process, 6 continuing education courses, 210 exemption from assessment, 9 assessment center, 18 Assessment of Written English (AWE), 7, 8, 76 associate degree, general requirements for, 64 Associated Students (AS) Student Government, 21 associate in arts degree (A.A.) areas of emphasis requirements business, 92 communication.92 fine arts, 92–93 humanities, 93 information technology, 93–94 kinesiology and wellness, 94 language arts, 94–95 mathematics, 95 music, 95 natural sciences, 95–96 social and behavioral sciences. 96 associate in arts transfer degrees (AA-T), 64 associate in science degree (A.S.) alphabetical listing, 67–68 graduation requirements, 64 listing by instructional division, 68 programs of study leading to, 69–91 associate of arts degrees (A.A.) area of emphasis requirements, 64 graduation requirements, 64 astronomy course descriptions, 129-130 athletic facilities, 27 athletics course descriptions, 185-187 athletic trainer aide l certificate, 55 attendance and enrollment, 11 auditing courses, 11 automotive welding, cutting, and modification certificate, 53 occupational training certificate, 220 auxiliary computer information systems course descriptions, 141 auxiliary services/accounting office, 27 aviation science major, 72 R

basic skills assessment, 210 certificate of competency, 213 noncredit course descriptions, 225–228 pre-collegiate, 9, 213 and special programs, 210 basic studio arts course descriptions, 125 beginning computer information systems course descriptions. 141 biology course descriptions, 130–131 blue emergency telephones, 245 board of trustees, 2 bookkeeping certificate, 54 occupational training certificate, 214 bookstore (SacBookRac), 27 botany course descriptions, 131 box office, 28 bridge program, 18 building automation certificate, 36 major, 72 bursar's office and photo ID, 18 business certificates business management, 38, 55, 216 human resource management, 37, 55, 216 international, 37-38, 55, 216 retail management, 38, 216–217 small business management, 38-39, 55, 217 business course descriptions accounting, 131–132 business communications, 132 business management, 133-134 economics, 132–133 law, 133 noncredit courses, 233-234 paralegal, 134–135 real estate, 135-136 sales, merchandising and marketing, 136–137 business majors accounting, 69 general business, 78 human resource management, 79 international business. 80 marketing management, 82 real estate, 89 retail management, 72 small business management, 91 business management, occupational training certificates, 216-217

С

(++ certificate, 51 professional certificate, 56 C# professional certificate, 55 California independent colleges and universities, 106 California State University (CSU) CSU/UC cross enrollment program, 108 general education requirements, 2011-2012, 100–102 graduation requirements American institutions & U.S. history, 102 graduation requirements only in U.S. history, constitution, and American ideals, 105 lower division transfer admission requirements, 99 transfer courses. 108 university locations, 99 upper division transfer admission requirements, 99 CalWORKs (California Work Opportunities and Responsibility to Kids), 19

Index

Campus Café, 27 campus disturbances, policy, 244 campus emergency phone system, 247 Campus Escorts, 20, 245 campus facilities. 26–28 campus hours, policy, 244 canceled classes. 8 CARE (Cooperative Agencies Resources for Education), 19 career and transfer services, 18 career assessments, 18 career counseling, 9 career development certificate of competency, 213 career placement services. See career and transfer services catalog rights, 12 certificates of achievement, 30-31, 32-54 noncredit certificates of competency, 212, 213 noncredit list of, 212 occupational training, 212, 214-220 programs of study leading to, 29-62 requirements for, 30 skills certificates, 30, 31 certified nursing and acute care nursing assistant, occupational training certificate, 218 cheating policy, 244 chemistry course descriptions, 137–138 chemistry placement, 8 child care access grant funding, 27 child development course descriptions, 138–140 major, 73 child development center and laboratory school, 27 child development permit, 73, 138 children on campus, policy, 244 children's program certificate administration, 39 general, 39, 55 small business management, 40 teaching, 40 child specialization (school age) certificate, 52 Chinese course descriptions, 140 CIS professional certificate. See computer information systems professional certificates citizenship, noncredit course description, 228 Clarke Theater, 28 classification of student by credits, 12 classroom visitors policy, 244 clearing probation, 16 clubs and organizations, 21 coaching certificate, 57 coerequisites, challenging, 9 College Calendar, 2011-12, vi–viii College Directory, ix commercial and entertainment arts department, 24-25 commercial flight, major, 73 Common Grounds, 27 community health programs and CPR, 211 complaints, 246 computer aided graphics, visual arts and design programs, 24 computer and networking technology certificates, 40 course descriptions, 146 major, 74 occupational training certificate, 217

computer database management systems major, 73 computer graphic proficiency certificate, 57 computer graphics course descriptions, 140-141 computer graphics design/photography certificate, 41 major, 73 occupational training certificate, 219 computer information systems, course descriptions auxiliary, 141 beginning, 141 database, 142 information processing, 142 management, 142 networking, 143 programming, 143–144 security, 144 web applications, 144–145 computer information systems, noncredit course descriptions, 234-236 computer information systems department, 25 computer information systems professional certificates C# programming, 55 C++ programming, 56 database management, microcomputers, 56 Java programming, 57 LINUX.56 networking, 57 network security, 56 object-oriented design & programming, 56 Oracle, 57 SOA and web services, 56 SOL, 56 telecommunications. 57 visual basic programming, 51, 57 web programming, 57 Windows operating system administration, 56 computer information technology, introduction to, certificate, 60 computerized accounting certificate. 32 computer network administration and security management. major, 74 computer programming course descriptions, 143-144 major, 74 professional certificates, 55–57 See also computer information systems professional certificates computer programming, computer security, and computer servicing, 25 computer science course descriptions, 145–146 computer science/mathematics, 25 computer systems technology certificate. 41 occupational training certificate, 217 computer technology, noncredit course descriptions, 236 concurrent enrollment for K-12 students (special admits) construction inspection certificate, 41 maior.74 consumer services certificate, 41 continued probation, 15

continuing education (adult education), 209-242 basic skills and special programs, 210 basic skills course descriptions, 225-228 career development course descriptions, 225 citizenship course description, 228 community health programs and CPR, 211 course descriptions, 225–242 credit/noncredit combined courses, 210 English as a second language (ESL), 210 exercise science and wellness center, 210 Generations Program, 211 health careers resource center (HCRC), 211 language learning center, 210 Mountie Volunteer Program (MVP), 211 noncredit certificates of competency, occupational training certificates, 212, 214–220 older adult program, 211 parent education, 231 secondary education course descriptions, 213 student services, 210 continuing education course descriptions administrative justice, 231 agricultural science, 231–233 architectural technology, 233 business, 233–234 citizenship, 228 computer technology, 236 correctional science, 236 disabled students, 228 electronics, 236-237 electronics and computer technology, 237 engineering design technology, 237–238 fashion and fashion design, 238 geography, 238 health, 238–239 health and safety, 228–229 hotel and restaurant management, 239 interior design, 239 manufacturing technology, 239-240 nutrition and food, 240 older adults, 239–241 parent education, 231 photography and photographics, 240-241 service learning, 241 special needs population job readiness skills, 241 stained glass production, 241 theater arts, 241–242 welding, 242 continuing student, 11 continuous attendance, 12 convenience stores, 28 Cooperative Agencies Resources for Education (CARE) corequisites, defined, 9, 108 correctional sciences certificate. 41–42 course descriptions, 146-147 maior, 75 noncredit course descriptions, 236 counseling and advising services, 9 career counseling, 9 continuing education, 210 counseling center, 18 exemption from, 9 personal counseling, 20 counseling course descriptions, 147

course descriptions, 107-208 course prefix listing, 109 course prerequisites, 9 credit by examination, 13-14 credit for extra institutional learning, 14–15 credit for military training, 15 credit/noncredit combined courses, 210 credits and grades, 12–15 classification of students by credits, 12 credit. defined. 12 grading system, 12 pass/no pass grades, 13 work-experience education, 23 crime prevention, 247 CSU general education breadth, 30 CSU/UC cross enrollment program, 108 culinary arts, level I certificate, 58 current license holders, credit for, 15

D

dance course descriptions activity, 147–149 theory, 149–150 dance studio, 28 dance teacher certificate, 58 database management systems maior.73 microcomputers, professional certificate, 56 data entry certificate, 58 occupational training certificate, 219 dean's list, 15 definitions of terms, 11, 108 degree appropriate courses, 108 digital photographic technician certificate, 42 disabled student programs & services (DSP&S), 19 disabled students course descriptions, 150–151 "Disabled Person" permit, 19 noncredit course descriptions, 228 policy for providing academic adjustments for, 246 study skills laboratory, 211 dismissal appeal of, 16 reinstatement after, 16 distance learning program, 23 dress regulation, 244 driving and parking, policies, 244 dropping courses, 11

E

economics course descriptions, 132–133 educational paraprofessional, major, 75 educational records access to, 247 challenge of, 16 definition of, 16 release of information, 247–248 transcripts, 16 transfer of information to third parties, 248 education course descriptions, 151

Index

electronic assembly and fabrication certificate, 58 occupational training certificate, 217 electronics course descriptions, 151–152 industrial systems certificate, 43 noncredit course descriptions, 236--237 occupational training certificates, 217-218 electronics and computer engineering technology certificate, 42 major, 75 occupational training certificate, 218 electronics and computer technology department. 25 noncredit course descriptions, 237 electronics communications certificate, 42 occupational training certificate, 218 electronics systems technology certificate, 42, 58 course descriptions, 153 electronics technology certificate, 43 occupational training certificate, 217 electronic systems technology level II certificate, 42 occupational training certificates, 217 eligibility requirement, for enrolling in a course, 108 emergency medical service course descriptions, 153-154 major, 75-76 emergency medical technician certificate, 58–59 course descriptions, 154 emergency medical technician-paramedic (EMT-P) certificate, 43-44 emergency phone system, 245 emergency procedures, 247 enforcement, student discipline code of conduct, 247 engineering course descriptions, 154 engineering design technology certificates, 44 course descriptions, 155 department, 24 major, 76 noncredit course descriptions, 237-238 English as a second language (ESL) certificate of competency, 213 continuing education, 210 English course descriptions composition, 155-157 literature, 157-158 English placement test, 8 enrollment fees and expenses, 8 EOPS. See extended opportunity programs and services (EOPS) equal opportunity statement, 246 equipment technology major, 77 escort service, 20 escrow management certificate, 44 major, 77 ESL. See English as a second language (ESL) evaluation of other college coursework, 7 exceptional action, petitions for, 11 exemption from assessment, 9

exercise science/wellness center, 27 Express Stop, 28 extended opportunity programs and services (EOPS), 19 extra institutional learning, credit for, 14–15 eye protection policy, 244

F

F-1 Visa, 8 faculty and academic administrator directory, 249-260 family and consumer sciences course descriptions, 158 major, 77 family child care certificate, 45 Farm, 27 fashion and fashion design, noncredit course descriptions, 238 fashion design, computer-aided, certificate, 59 fashion merchandising and design certificates, 45-46 course descriptions, 158-160 major, 77–78 federal review board, 246 fees A.S. student activities fee, 21 continuing education courses, 210 fee waiver program, 20 refund of, 8 student representation fee. 8 final examinations. 12 financial aid, 19–20 financial planning certificate, 32 fire technology administrative law major, 78 certificates, 46 course descriptions, 160-161 maior, 78 fitness course descriptions, 187–188 fitness specialist/personal trainer certificate, 59 floral design, occupational training certificate, 214 food services, 27 Foothill bus passes, 27 forestry, conservation course descriptions, 112 Free Application for Federal Student Aid (FAFSA) form, 19, 20 French course descriptions, 161 freshman, defined, 12 full-time student, defined, 12

G

gallery and professional practices course descriptions, 125 gallery design/operation and art profession certificate, 59 gas tungsten arc welding certificate, 54 occupational training certificate, 220 GED preparation, certificate of competency, 213 general business major, 78 general childcare funding, 27 general education outcomes (GE0s), 65 general education requirements, 2011-2012, 65, 66–67 general subjects, agriculture, course descriptions, 112 Generations Program, 211 geography course descriptions, 161–162 noncredit course descriptions, 238 geology course descriptions, 163 German course descriptions, 163 government, student, 21 GPA requirement, 64 grading scale, 12 graduation, application for, 64 graduation honors, 15 graduation requirements 2011-2012, 64 graphic design, 78–79 grievance process, 246

Н

health, noncredit course descriptions, 238-239 health and safety, noncredit course descriptions, 228-229 health careers, occupational training certificates, 218 health careers resource center (HCRC), 211 health care interpreting, occupational training certificate, 218 health services, student, 20 high school program, 213 histologic technician training major, 79 history, of Mt. San Antonio College history course descriptions, 164–165 histotechnology course descriptions, 165–166 honors dean's list, 15 graduation honors. 15 president's list, 15 honors program, 15 entrance requirements, 15 requirements for "Honors Scholar" designation, 15 horse ranch management certificate, 46 major, 79 occupational training certificate, 214 hospitality and restaurant management catering certificate, 46 course descriptions, 166–167 food services certificate, 59 hospitality management certificates, 46, 59 maior, 79 restaurant management certificate, 46, 59 hotel and restaurant management, noncredit course descriptions, 239 humanities and social sciences division, 3 humanities course descriptions, 167 human resource management certificates, 37, 55 major, 79 occupational training certificate, 216 human resources, Mt. San Antonio College, 2 hybrid classes, 23

IGETC. See intersegmental general education transfer curriculum (IGETC) incomplete grades, 12 independent colleges and universities, 106 individual physical education courses, 188–190 industrial electronics, occupational training certificate, 218 infant/toddler development certificate, 46 information and educational technology staff, 2 information and operating systems security certificate, 60 inspection and estimating, building, course descriptions, 167 instructional divisions, 3–4 arts division, 3 business division. 3 continuing education division, 3 humanities and social sciences division, 3 library and learning resources division, 3-4 natural sciences division, 4 physical education division. 4 technology and health division, 4 instruction and learning resources, 22-25 distance learning program, 23 Math Activities Resource Center (MARC), 23 Tech Ed Resource Center (TERC), 23 Transfer Math Activities Resource Center (T-MARC), 23 work experience education, 23 Writing Center, 23 instruction staff, 2 integrated pest management major, 80 Inter-Club Council (ICC), 21 interior design certificates, 47 course descriptions, 167-169 interior design major, 80 kitchen and bath design certificate, 47 kitchen and bath design major, 80 noncredit course description, 239 interior landscaping certificate, 47 occupational training certificate, 214 international baccalaureate credit for general education requirements for the associate degree, 14 international business certificates. 37.55 major, 80 occupational training certificates, 216 international student programs, 20 international students, admission of, 7-8 intersegmental general education transfer curriculum (IGETC) certificate, 30 IGETC after transfer partial certification of, 106 introduction to computer information technology certificate, 60 IP (in progress), 12 Italian course descriptions, 169

J

Japanese course descriptions, 170 Java programming professional certificate, 57 job readiness skills, special needs population, occupational training certificate, 241 journalism course descriptions, 170–171

K

kitchen and bath design certificate, 47 kitchen and bath design major, 80

Index

L

landscape and park maintenance certificate, 48 occupational training certificate, 214 landscape design and construction certificate, 48 occupational training certificate, 215 landscape equipment technology certificate, 48 occupational training certificate, 215 landscape irrigation certificate 48 occupational training certificate, 215 language learning center (LLC), 210 Latin course descriptions, 171 law enforcement certificate, 48 maior, 81 leadership course descriptions, 171 learning assistance center, 4 learning communities course descriptions, 172 legal residence, criteria for determination of, 6 Library, 24 library and instructional media course descriptions, 172 library and learning resources, 24 licensed vocational nurse (LVN) 30-unit option career mobility track certificate, 60-61 to RN, major, 81–82 licensed welding certificate, 53 occupational training certificate, 220 limitation on repeating courses, 11 LINUX professional certificate, 56 literature course descriptions, 157–158 livestock management certificate, 48 major, 82 occupational training certificate, 215 livestock production course descriptions, 112–113 LVN. See licensed vocational nurse (LVN)

Μ

machine operator certificate, 61 management course descriptions, 133–134 managerial accounting certificate, 32 manufacturing technology certificate, 49 course descriptions, 172–173 major, 82 noncredit course descriptions, 239-240 occupational training certificates, 218-219 marketing, sales, and merchandising course descriptions, 136-137 marketing management certificate, 49 maior.82 MasterCAM certificate.61 occupational training certificate, 219 Math Activities Resource Center (MARC), 23 mathematics computer science/mathematics, 25 course descriptions, 173–175 department, 25

mathematics placement test, 8 matriculation services, 6-9 media services, 3, 24 medical office specialist: occupational training certificate medical terminology course descriptions, 175 mental health/psychiatric technician certificate, 49-50 course descriptions, 175-176 mental health technology--psychiatric technician: major, 83 merchandising, sales, and marketing course descriptions, 136-137 meteorology course descriptions, 176 Metro bus passes, 27 microbiology course descriptions, 176 microcomputer productivity software certificate, 50 military refund, 8 military training, credit for, 15 military withdrawal (MW), 12 mission, vision, and values, 1 Mountie Grill, 28 Mountie Stop, 28 Mountie volunteer program (MVP), 211 Mt. San Antonio College 2011-12 College Calendar, vi-viii College Directory, ix faculty directory, 249-260 history, 1 human resources, 2 mission, vision, and values, 1 policies and notices, 243-248 multiple degrees, 64 music course descriptions, 176-180 music recital hall, 28

Ν

MW (military withdrawal), 12

natural sciences, 95–96 natural sciences division, 4 network administration and security management major, 74 networking professional certificate, 57 network security professional certificate, 56 noncredit certificates of competency, 212, 213 noncredit course listings, 221–224 noncredit education. See continuing education (adult education) non-degree credit courses, 108 non-discrimination policy, 245 nonresident. defined. 6 notice of students' rights, 246 nursery management certificate, 50 occupational training certificate, 215 nursing course descriptions, 180-181 major, 84 nutrition and food credit course descriptions, 181-182 noncredit course descriptions, 240 nutrition program assistant certificates, 61

0

object-oriented design and programming professional certificate, 56 obligations, student, 8 occupational training certificates, 212, 214–220 oceanography course descriptions, 182 office computer applications, occupational training certificate, 219 office technology occupational training certificates, 219 older adults, noncredit course descriptions, 229-231 online learning classes, 23 online-supported (hybrid) classes, 23 open enrollment, 246 operating system administration professional certificate, Windows, 56 Oracle professional certificate, 57 organizations, student, 21 orientation basic skills and ESL students, 210 continuing education, 210 credit students, 9 exemption from, 9 ornamental horticulture course descriptions, 113–115 major, 84-85

Р

paralegal/legal assistant business course descriptions, 134-135 maior.85 paramedic (EMT-P) certificate, 43-44 parametric solid modeling certificate, 61 occupational training certificate, 219 parent education, noncredit course description, 231 park and sports turf management major, 85 parking "disabled person" permit, 19 permit, 244 park management certificate, 50 occupational training certificate, 215 part-time student, defined by credits, 12 pass/no pass grades, 13 payroll certificate, 54 occupational training certificate, 214 performing arts center, 28 box office, 28 petition for exceptional action, 11 pet science certificate, 50 course descriptions, 115 maior 85 occupational training certificate, 215 philosophy course descriptions, 182–183 Phi Theta Kappa, 15 photography and photographics certificate, 50 computer graphic design/photography, 41, 73 credit course descriptions, 183-184 maior, 86 noncredit course descriptions, 240-241 occupational training certificates, photography, 219–220 photo ID cards, 18

physical education activity unit. 108 division, 4 major, 86 physical education courses adaptive, 184 aguatics, 184-185 athletics, 185–187 fitness, 187-188 individual. 188–190 team sports, 190–191 theory, 191–192 physical science course descriptions, 192 physical therapy aide course descriptions, 192 physician assistant preparatory course descriptions, 192 physics course descriptions, 192–193 Pilates professional teacher training phase I: mat and reformer, certificate, 62 placement services, career. See career and transfer services placement tests appeals process, 9 placement test and eligibility time limits, 9 retest policy, 9 test scores and placement from other colleges, 9 plagiarism policy, 244–245 planetarium, 28 policies and notices, 243-248 political science course descriptions, 193–194 pre-collegiate basic skills courses, 9, 213 defined, 108 prerequisites challenging, 9 defined, 108 preschool program, state, 27 president's list, 15 president's office staff, 2 primary term, 11 Prime Stop, 28 privacy act, 247–248 probation academic probation, 16 clearing, 16 continued probation, 16 and dismissal status, 16 progress probation, 16 programming. See computer programming programs of study leading to a certificate, 29–62 programs of study leading to an associate degree, 69–91 programs of study leading to transfer, 98 progress probation, 16 psychiatric technician certificate, 40 course descriptions, 175–176 major, 83 to RN major, 86-87 psychology course descriptions, 194–195 public safety department annual security report, 247 campus number, 247 statistical crime report, 247 public works/landscape management certificate, 51

R

radio and television course descriptions, 195-197 radio broadcasting on the air certificate, 51.62 on the air maior, 87 behind the scenes certificate, 51, 62 behind the scenes major, 87 radiologic technology course descriptions, 197–198 major, 88-89 RD (report delayed), 12 reading course descriptions, 198-199 reading placement, 8 real estate certificate, 51 course descriptions, 135-136 maior, 89 real estate appraisal certificate, 52 maior, 89 records. See educational records re-entry services, 20 refunds for credit classes. 8 of fees, 8 textbooks and supplies, 27 registered veterinary technology major, 89-90 registration, 8 cancelled classes, 8 enrollment fees and expenses, 8 refund of fees, 8 student obligations.8 student representation fee, 8 reinstatement after dismissal, 165 release of educational records information, 247–248 renewal, academic, 16 repeating courses limitations on, 11 repeatable courses, 11 repeating courses previously passed, 11 report delayed (RD), 12 required GPA. 64 Reserve Officer Training Corps (ROTC), 246 residence classification, 6 residence classification appeal, 6 residency requirement. 6 resident, defined, 6 respiratory therapy course descriptions, 199–200 maior, 90 retail management certificates, 38 maior,72 occupational training certificates, 216-217 retest policy, assessment and placement, 9 rights and privacy act. 247–248 right-to-know rates, 248

S

SacBookRac, 27 sales, merchandising and marketing course descriptions, 136-137 schedule of classes, 8 scholastic honor. 15 school age child specialization certificate, 52 secondary education certificate of competency (high school program), 213 security, computer information systems, course descriptions, 144 security escort service, 20 self-paced, multisensory learning aides, 211 semiautomatic arc welding certificate, 54 occupational training certificate, 220 service learning credit course descriptions, 200 noncredit course descriptions, 241 sexual harassment and sexual violence policy, 245 Short Stop, 28 sign language/interpreting certificate, 52 course descriptions, 200-201 major, 91 skills certificates, 30, 31, 54-62 small business management certificate, 38–39 children's program certificate, 40 maior, 91 occupational training certificates, 217 smoking on campus, 246 SOA and web services professional certificate, 56 sociology course descriptions, 201–202 Solomon Amendment, 248 Sophia B. Clarke Theater, 28 sophomore, defined, 12 Spanish course descriptions, 202–203 special needs population job readiness skills, noncredit course descriptions, 241 special studio arts courses, 125 speech course descriptions, 203-205 sports turf management certificate, 52–53 major, 85 occupational training certificate, 215 SOL professional certificate, 56 Stadium, Hilmer Lodge, 27 stained glass production, noncredit course descriptions, 241 standards of conduct, 245-246 state preschool program, 27 student complaints, 246 student government, 21 student health services, 20 student obligations. 8 student rights and privacy act, 247–248 student right-to-know rates, 248

student services and student life, 17-21 admissions and records, 18 advising center, 108 ASPIRE program, 18 assessment center, 18 Associated Students (AS) Student Government, 21 bridge program, 18 bursar's office and photo ID, 18 CalWORKs (California Work Opportunities and Responsibility to Kids), 19 campus clubs and organizations, 21 CARE (Cooperative Agencies Resources for Education), 19 career and transfer services, 18 child development center, 27 counseling center, 18 disabled student programs & services (DSP&S), 19 extended opportunity programs and services (EOPS), 19 financial aid, 19–20 international student programs, 20 re-entry services, 20 security escort service, 20 student health services, 20 student life center, 21 student life office/student center. 21 veterans' services, 20-21 student services staff, 2-3 student unit limits. 11 studio arts courses basic studio arts, 125 special studio arts, 125 three-dimensional studio arts, 126-127 two-dimensional studio arts, 127–128 Studio Theater, 28 study techniques course descriptions, 205 SurfCAM certificate, 62 occupational training certificate, 219 surveying course descriptions, 205 Т teaching certificate, children's program, 40 team sports course descriptions, 190–191 TECH Ed Resource Center (TERC), 23 technology and health division. 4 technology-related courses, 205 telecommunications professional certificate, 57 television production certificate, 52 major, 91 Test of English as a Foreign Language (TOEFL), 7, 8, 210, 228 theater arts credit course descriptions, 206 noncredit course descriptions, 241–242 theory, physical education course descriptions, 191–192 three-dimensional studio arts course descriptions, 126–127 traditional animation certificate. 35

transcripts, 16

transfer services, 18

transfer curriculum (IGETC), 30, 106

Transfer Math Activities Resource Center (T-MARC), 23

transfer to California colleges and universities

university transfer major options, 98

programs of study leading to, 98

transfer courses, defined, 108

transportation course descriptions, 206–207 tree care and maintenance certificate, 53 occupational training certificate, 216 tutorial services, 3, 24 tutor training course descriptions, 207 two-dimensional studio arts course descriptions, 127–128

U

United States Armed Forces Institute, credits earned through, 15 unit limits, 11 unit of credit, defined, 12 University of California (UC) branch locations, 103 credit for physical education activity courses, 108 credit pending, 108 intersegmental general education transfer curriculum (IGETC), 2011-2012, 104–105 language other than English requirement, 105 minimum admission requirements, 103 minimum admission requirements for California residents transferring to, 103 transfer/UC credit limitations, 108

V

values, of the college, 1 vending machines, 28 veterans services center, 20–21 veterinary technology major, 89–90 vision, of the college, 1 visual basic programming professional certificate, 51, 57

W

water technology certificate, 53 course descriptions, 207 web applications, course descriptions, 144–145 web page design certificate, 53 web programming professional certificate, 57 welder, occupational training certificates automotive welding, cutting, & modification, 53, 220 gas tungsten arc welding, 220 licensed welder, 53, 220 semiautomatic ARC welding, 220 welding certificates, 62 course descriptions, 207–208 major, 91 noncredit course descriptions, 242 welding technologies, occupational training certificate, 220 wildlife sanctuary, 28 Windows operating system administration professional certificate, 56 withdrawal from classes, 12 from the college, 11 with honors, 15 work experience education, 23 Writing Center, 23 W (withdrawal), 12

INDEX

LEGEND FOR CAMPUS MAP

| Administration (under renovation) 4 |
|--|
| (The following departments have moved) |
| Academic Senate |
| Administrative Services |
| Continuing Education |
| Faculty Copy Center |
| Fiscal Services |
| Human Resources16E |
| Instruction Office |
| Mail Center |
| Parking Office (Violations) |
| Payroll & Purchasing |
| Research |
| 48th Agricultural District Office F10 |
| Adult Basic Education Center 30 |
| Agricultural Sciences |
| Agricultural Technology Center F3 |
| Animation Drawing Lab 1B-3 |
| Art Center 1A/B |
| Art Computer Graphics Lab 18-1 |
| Art Gallery/Classrooms 1B/C |
| Arts Division Office |
| Auxiliary Services |
| Biological Services 7, 11, 60 & 61 |
| Bookstore (SacBookRac) 9A |
| Box Office (Performing Arts)2 |
| Bursar's Office/Photo ID/Permits 9A |
| Business Division Faculty Offices . 18A, B |
| Business Division Office 17 |
| Campus Cafe |
| Center of Excellence |
| Chemistry |
| Child Development Center North 9E |
| Child Development Center South 19A |
| Child Development Classes 198 |
| Child Development Faculty Offices 18A |
| Common Grounds |
| Communication Dept 26D |

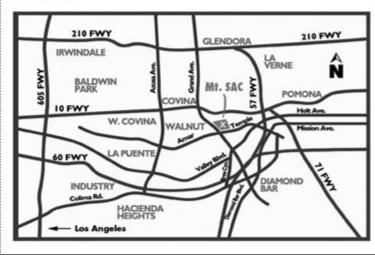
| Continuing Education Division 40 | |
|--|------------------|
| Construction Offices | 1 |
| Counseling 98 | 1 |
| Disabled Student Services | |
| English | ' |
| Equipment Technology Lab | 1 |
| ESL Classrooms | / |
| Exercise Science/Wellness Center 27A | 11 |
| Express Stop 16A | Ħ, |
| Fashion | 1 |
| Foreign Languages | 1 |
| Forensics | Ι. |
| Foundation Office | |
| | 1 |
| Founders Hall | (|
| Health Careers | F |
| Health Careers Resource Center 67B | 1 |
| Heating/Air Conditioning 69 | |
| High School Referral/Adult Diploma Programs 32, 33 & 38A-B | |
| History/Geography/ Political Science | |
| Honors Program 26D | 1 |
| Horticulture Units | F |
| Hospitality & Restaurant Mgmt 19B | F |
| Humanities/Social Sciences Division Office | ſ |
| Humanities/Social Sciences26A, B & D | ſ |
| Information Technology , 23 & 23A | F |
| Interior Design | |
| Journalism | |
| Landscaping/Irrigation Lab | |
| Language Center | 11 |
| ESL | 1 |
| Learning Technology Center 6 | 1 |
| Campus Events | , , , , |
| Division Office | |
| KSAK Radio | |
| Learning Assistance Center | 1 |
| Library | |
| Media Services | |
| Professional & Organizational Dev. | |
| Tutorial Services/Supervised Tutoring | n : |

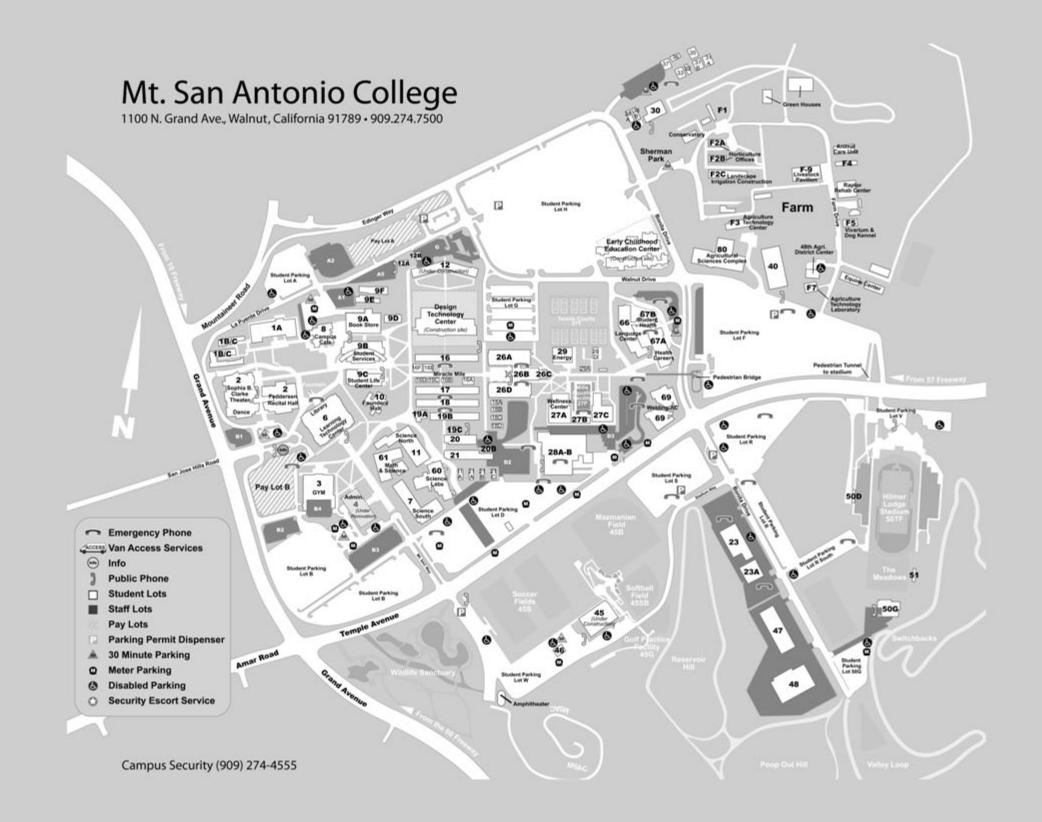
| TV Production/Broadcasting |
|--|
| Livestock Pavilion |
| Maintenance/ Facilities Management |
| Math & Science Bldg |
| Math Tutoring |
| Mental Health Faculty Offices 67A |
| |
| Mountie Grill |
| Mountie Stop9A |
| Music/Dance/Theater |
| Natural Sciences Division Office |
| Natural Sciences Complex .7, 11, 60 & 61 |
| Nutrition |
| Older Adult Programs |
| Parking Office (Violations) 40 |
| Performing Arts Center |
| Box Office |
| Dance Studio |
| Music Recital Hall |
| Sophia B. Clarke Theater |
| Studio Theater |
| Physical Education Division Office |
| PE Center |
| PE Center/Gym |
| PE Center Field House |
| PE Dance Studio |
| PE Pool |
| Photographics |
| Picnic Area/Restrooms |
| Planetarium Programs |
| Prime Stop |
| Public Safety (Security) |
| Receiving/Transportation |
| Regional Health Occupations |
| |
| Science Laboratories Building 60 |
| Science - NORTH |
| Science - SOUTH |
| Security (Public Safety) |
| Short Stop 67A |
| |

| Student Health | |
|---|--|
| Student Life Center | SECURITY |
| Student Services Center 98 Admissions & Records | ESCORT SERVICE |
| ASPIRE (9D) Assessment | For your added personal safety, Mt. SAC offers a Campus Escort Service. |
| Assessment Bridge/Learning Communities (9D) Career & Transfer Services | Monday - Thursday, 6:30 - 10:10 p.m. |
| Counseling Department | Personal Escorts can be identified by |
| Disabled Student Programs & Services EOPS/CARE/CalWORKs | their yellow jackets and I.D. badges. See the color map for a orange 🔘 |
| Financial Aid High School Outreach | which shows the approximate location of Escorts. |
| Upward Bound (9D) Veteran's Affairs | Escort Service (909) 274-4233 |
| Swine Barn | Campus Security |
| Teacher Prep. Institute | (909) 274-4555 |
| Technology & Health Division Office | |
| Telecommunications | STOP D |
| VTEA (Vocational Technical Ed. Act) 40 | |
| Welding/Air Conditioning 69 | |
| Wellness Center | <u>MA</u> |
| WIN (Student Athlete Tutorial Center) | |

Writing Center 268

DISTRICT MAP





THEN & NOW . . .

In the spirit of Mt. SAC's milestone 65th anniversary, we salute over six decades of quality instruction with this "then-and-now" design concept for the catalog covers. Over these many years, Mt. SAC has distinguished itself as an institution committed to teaching excellence and student success. That's our longstanding legacy!