

Section 7

Programs of Study Leading to an Associate in Science Degree

Programs of Study Leading to an Associate in Science Degree

Mt. San Antonio College offers two year occupational degrees which are described in the section of the Catalog. The degrees meet the degree requirements for the Associate in Science Degree major. Additional general education courses needed for completion of the degree requirements are listed in **Section 3 – Academic Information and Requirements** of this Catalog. For further information, please consult with the Career Counseling office on the upper level of the Student Services Center.

Alphabetic Listing – Associate in Science Degree (A.S.)

A

Accounting	61
Administrative Assistant	62
Advertising Design and Illustration	63
Agri-Business	64
Agri-Technology Option	65
Air Conditioning and Refrigeration	66
Airframe and Aircraft Powerplant Maintenance Technology	67
Alcohol/Drug Counseling	69
Animation	70
Architectural Technology	71
Aviation Science	72

B-C

Business Management	73
Business Retail Management	74
Child Development	75
Commercial Flight	76
Computer and Networking Technology	77
Computer Graphics Design/Photography	78
Computer Programmer — C++	79
Computer Programmer — COBOL	80
Computer Programmer — Database Management Systems	81
Computer Programmer — RPG	82
Computer Programmer — Telecommunications	83
Computer Programmer — Visual Basic	84
Construction Inspection	85
Correctional Sciences	86

D-E

Design for Interactive Visual Media	87
Desktop Publishing	88
Electronics and Computer Engineering Technology	89
Emergency Medical Services	91
Engineering Design Technology	93
Equipment Technology	94
Escrow Management	95

F

Family and Consumer Sciences	96
Fashion Design	97
Fashion Merchandising	98
Fire Technology	99
Fire Technology – Administration	100
Fire Technology – Administrative Communications	101
Fire Technology – Administrative Law	102
Fire Technology – Fire Management	103
Fire Technology – Fire Prevention	104
Fire Technology – Fire Training	105
Fire Technology – Private Fire Service	106
Flight Attendant	107
Floral Design	108

G-H

General Business	109
Histologic Technician Training	110
Horse Ranch Management	111
Horticulture Science	112
Human Resource Management	113

I-J-K

Interior Design	114
Interior Design – Kitchen and Bath Design	115
International Business	116

L

Law Enforcement	117
Licensed Psychiatric Technician to RN	118
Licensed Vocational Nurse to RN	121
Livestock Management	124

M

Manufacturing Technology	125
Marketing Management	126
Mental Health Technology – Psychiatric Technology	127

Alphabetic Listing – Associate in Science Degree (A.S.) (continued)

N-O

Nursing 129

P-O

Paralegal/Legal – Bankruptcy Specialty 132
 Paralegal/Legal – Corporations/Business Specialty 133
 Paralegal/Legal – Criminal Specialty 134
 Paralegal/Legal – Family Law Specialty 135
 Paralegal/Legal – Landlord/Tenant Specialty 136
 Park Management 137
 Pet Science 138
 Photography 139
 Physical Education 140

R

Radio and Television Broadcasting 141
 Radiologic Technology 142
 Real Estate 145
 Real Estate Appraisal 146
 Recreation 147
 Registered Veterinary Technology 148
 Respiratory Therapy 150
 Restaurant/Hospitality Management 153

S-T

Sign Language/Interpreting 154
 Small Business Management 155

U-V-W

Welding 156
 World Travel Management 157

Listing by Instructional Division – Associate in Science Degree (A.S.)

Business Division

Accounting	61
Administrative Assistant	62
Business Management	73
Business Retail Management	74
Child Development	75
Computer Programmer — C++	79
Computer Programmer — COBOL	80
Computer Programmer — Database Management Systems	81
Computer Programmer — RPG	82
Computer Programmer — Telecommunications	83
Computer Programmer — Visual Basic	84
Desktop Publishing	88
Escrow Management	95
Family and Consumer Sciences	96
Fashion Design	97
Fashion Merchandising	98
General Business	109
Human Resource Management	113
Interior Design	114
Interior Design – Kitchen and Bath Design	115
International Business	116
Marketing Management	126
Paralegal/Legal – Bankruptcy Specialty	132
Paralegal/Legal – Corporations/Business Specialty	133
Paralegal/Legal – Criminal Specialty	134
Paralegal/Legal – Family Law Specialty	135
Paralegal/Legal – Landlord/Tenant Specialty	136
Real Estate	145
Real Estate Appraisal	146
Restaurant/Hospitality Management	153
Small Business Management	155

Humanities and Social Sciences Division

Advertising Design and Illustration	63
Animation	70
Radio and Television Broadcasting	141
Sign Language/Interpreting	154

Natural Sciences Division

Agri–Business	64
Agri-Technology Option	65
Computer Graphics Design/Photography	78
Design for Interactive Visual Media	87
Floral Design	108
Histologic Technician Training	110
Horse Ranch Management	111
Horticulture Science	112
Livestock Management	124
Nursing	129
Park Management	137
Pet Science	138
Photography	139
Registered Veterinary Technology	148

Listing by Instructional Division – Associate in Science Degree (A.S.) (continued)

Physical Education Division

Physical Education	140
Recreation	147

Technology and Health Division

Air Conditioning and Refrigeration	66
Airframe and Aircraft Powerplant Maintenance Technology	67
Alcohol/Drug Counseling	69
Architectural Technology	71
Aviation Science	72
Commercial Flight	76
Computer and Networking Technology	77
Construction Inspection	85
Correctional Sciences	86
Electronics and Computer Engineering Technology	89
Emergency Medical Services	91
Engineering Design Tecnology	93
Equipment Technology	94
Fire Technology	99
Fire Technology – Administration	100
Fire Technology – Administrative Communications	101
Fire Technology – Administrative Law	102
Fire Technology – Fire Management	103
Fire Technology – Fire Prevention	104
Fire Technology – Fire Training	105
Fire Technology – Private Fire Service	106
Flight Attendant	107
Law Enforcement	117
Licensed Psychiatric Technician to RN	118
Licensed Vocational Nurse to RN	121
Manufacturing Technology	125
Mental Health Technology – Psychiatric Technology	127
Radiologic Technology	142
Respiratory Therapy	150
Welding	156
World Travel Management	157

Graduation Requirements

Mt. San Antonio College offers two associate degree programs. The Associate in Science (A.S.) Degree is designed for students with vocational majors while the Associate in Arts (A.A.) Degree is designed for students planning to transfer and seek a baccalaureate degree. The requirements listed below are for the 2003-04 academic year and are based upon information available at the time of catalog publication.

Both degrees require 60 units and a letter grade of "C" or better in each required course. The general education requirements are the same for both degrees except for the mathematics competency. The Associate in Arts degree requires 56 of the associate degree units to be transferable as applicable to the baccalaureate degree.

Students are advised to contact the Advising Center regarding the most current information regarding graduation and transfer requirements.

Associate Degree Graduation Requirements

General Education Requirements*:

The General Education Requirements listed below PLUS the specific requirements for an A.A. or A.S. listed below.

AREA A: Communication in the English Language – Two [2] courses, six [6] units. ENGL 1A or 1AH–Freshman Composition and SPCH 1A or 1AH–Public Speaking.

AREA B: The Physical Universe and Life – One [1] course, three [3] units from Physical Sciences or Life Sciences.

AREA C: Arts and Humanities – Two [2] courses, six [6] units. At least one [1] course from Arts and one [1] course from Humanities.

AREA D: Social, Political and Economic Institutions – Six [6] units. Select one [1] course from U.S. History and American Institutions and at least one [1] course from **Elective Courses**.

AREA E: Lifelong Understanding and Self-Development – Three [3] units. Select one [1] course from the list.

Physical Well-Being Requirement: Students are required to complete *at least one (1) physical education activity course* from prefixes DNCE, PE-A, PE-F, PE-I, PE-L, PE-S, or PE-X with a grade of "C" or better, or "CR".

*For a listing of courses satisfying Areas A, B, C, D, and E, see General Education Requirements on pp. 59-62.

Associate in Arts Degree (A.A.)

Sixty (60) associate degree appropriate units including fifty-six (56) units which are baccalaureate level (designated CSU or UC in course description) with a letter grade of "C" or higher.

Mathematics COMPETENCY (minimum of three [3] units): MATH 71–Intermediate Algebra or MATH 71A and MATH 71B or MATH 52 and MATH 72 completing a more advanced college level mathematics course, or obtaining a satisfactory score on the Mt. San Antonio College intermediate algebra competency examination.

Associate in Science Degree (A.S.)

Sixty (60) associate degree appropriate units with a grade of "C" or higher

Mathematics COMPETENCY (minimum of three [3] units). This requirement is met by completing one of the following courses with a grade of "C" or better:

AGAG 91 Agricultural Calculations, or
ELMA 65B Mathematics of Electronics, or
MATH 51 Elementary Algebra, or
MATH 51A and MATH 51B, or

completing a more advanced college level mathematics course, with a grade of "C" or better, or obtaining a satisfactory score on the appropriate Mt. San Antonio College elementary algebra competency examination.

Petitioning for Graduation

All students must file a petition for graduation with the Admissions and Records office and have on file all required documents and transcripts. The deadline dates are on or about March 31 for Spring and Summer graduation and on or about October 31 for Fall graduation. Students also have the option of filing a graduation petition one semester prior to completing all coursework. Please check the *Schedule of Credit Classes* for further information.

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 one Associate in Arts degree and multiple Associate in Science degrees. Each additional Associate in Science degree requires 20 units of course work beyond the 60 units required for the first degree, including the satisfactory completion of all the required courses of the second major. Students awarded additional degrees must meet or complete the current general education requirements in effect at the time of re-entry.

Residency Requirement

The **Residency Requirement** for Mt. San Antonio College can be met in either of two ways: (1) twelve [12] units in residence and enrollment at Mt. San Antonio College in the last semester or (2) forty-five [45] units in residence, if the last semester is not at Mt. San Antonio College.

General Education Requirements

Philosophy Statement

The general education component of the associate degree introduces students to the humanities, social sciences, natural sciences, applied sciences, and technology. It exposes students to different areas of study; demands the acquisition and use of reading, writing, and critical thinking skills at appropriate post-secondary levels; imparts a sense of our shared cultural heritage and how to function as responsible, ethical individuals in a complex society; and instills a level of intellectual curiosity and self-awareness conducive to lifelong learning and personal growth.

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 degree granting institution;
- enter the work force as a competent, productive citizen;
- live a richer, more rewarding life.

General education is the distinguishing feature of higher education. It is a broadly-based core of humanistic knowledge and abilities, 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 open-mindedness, respect for differences among people, and knowledge of self. They provide an understanding of the human condition and of human accomplishments and encourage a lifelong interest in learning.

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, computation, and critical thinking.
2. Improve students' abilities to:
 - communicate oral and written ideas effectively;
 - define problems, design solutions, critically analyze results;
 - work effectively and cooperatively with others;
 - work independently;
 - develop and question personal and societal values, make informed choices, and accept responsibility for one's 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:

- 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 on skills acquisition.

D. Social Sciences

These courses explore, at the micro and macro-level, the social, political, and economic institutions that underpin society. Courses fulfilling these requirements:

- promote understanding and appreciation of social, political, and economic institutions;
- probe the relationship between these institutions and human behavior;
- examine these institutions in both their historical and contemporary context;
- include the role of, and impact on, non-white ethnic minorities and women;
- include both western and non-western settings.

E. Lifelong Understanding and Self-Development

These courses facilitate an understanding of human beings as integrated physiological, social and psychological organisms. Courses fulfilling this requirement:

- provide selective consideration of human behavior, sexuality, nutrition, health, stress, implications of death and dying, and the relationship of people to the social and physical environment.

Adapted from CSU Executive Order 595 and Title 5 Section 40405.1

General Education Requirements for 2003-2004

AREA A:

Communication in the English Language (6 units):

Select two [2] courses from the following:

- ENGL 1A Freshman Composition, or
- ENGL 1AH Freshman Composition - Honors

and

- SPCH 1A Public Speaking, or
- SPCH 1AH Public Speaking - Honors

AREA B:

The Physical Universe and Life (3 units):

Select one [1] course from the Physical Sciences or Life Sciences:

Physical Sciences

- ASTR 5 Introduction to Astronomy
- ASTR 6 Astronomical Observing
- CHEM 1A General Chemistry
- CHEM 1B General Chemistry
- CHEM 2A Fundamentals of Chemistry
- CHEM 2B Fundamentals of Chemistry
- GEOG 1 Elements of Physical Geography
- GEOL 1 Physical Geology
- GEOL 7 Geology of California
- GEOL 8 Earth Science
- GEOL 8H Earth Science - Honors
- GEOL 8L Earth Science Laboratory
- GEOL 9 Environmental Geology
- GEOL 10 Natural Disasters
- GEOL 13 Evolution of the Earth
- METO 3 Weather and the Atmospheric Environment
- OCEA 10 Introduction to Oceanography
- OCEA 10H Introduction to Oceanography - Honors
- OCEA 10L Introduction to Oceanography Laboratory
- PHSC 7 Physical Science
- PHSC 7L Physical Science Lab
- PHYS 1 Physics
- PHYS 2AG General Physics
- PHYS 2BG General Physics
- PHYS 4A Engineering Physics

Life Sciences

- AGOR 1 Horticultural Science
- ANAT 10A Introductory Human Anatomy
- ANAT 10B Introductory Human Physiology
- ANAT 35 Human Anatomy
- ANTH 1 Biological Anthropology
- ANTH 1H Biological Anthropology - Honors
- ANTH 1L Biological Anthropology Laboratory
- BIOL 1 General Biology
- BIOL 2 Plant and Animal Biology
- BIOL 3 Ecology and Field Biology
- BIOL 4 Biology for Majors
- BIOL 4H Biology for Majors - Honors
- BIOL 6 Humans and the Environment
- BIOL 6L Humans and the Environment Laboratory
- BIOL 17 Neurobiology and Behavior
- BIOL 20 Marine Biology
- BIOL 21 Marine Biology Laboratory
- MICR 1 Principles of Microbiology
- PSYC 1B Biological Psychology
- ZOOL 1 Invertebrate Zoology
- ZOOL 2 Vertebrate Zoology

AREA C:

Arts and Humanities (6 units):

Select two [2] courses, six [6] units minimum, with at least one [1] course from the Arts and one [1] from Humanities:

Arts

- ARTA 1 Understanding the Visual Arts
- ARTA 1H Understanding the Visual Arts - Honors
- ARTA 4 History of Western Art: Prehistoric Through Gothic
- ARTA 4H History of Western Art: Prehistoric Through Gothic - Honors
- ARTA 5 History of Western Art: Renaissance Through Modern
- ARTA 5H History of Western Art: Renaissance Through Modern - Honors
- ARTA 6 History of Modern Art
- ARTA 9 Asian Art
- ARTA 11 Arts of Africa, Oceania, and Native America
- ARTA 12 Pre-Columbian Art of the Americas
- ARTB 14 Introduction to Art Fundamentals
- ARTD 15A Drawing: Beginning
- ARTD 20 Design: Two Dimensional
- ARTD 25A Painting: Beginning
- ARTS 22 Design: Three Dimensional
- ARTS 30A Ceramics: Beginning
- ARTS 40A Sculpture: Beginning
- DN-T 20 History and Appreciation of Dance
- ID 180 History of Interior Architecture and Furnishings I
- MUS 7 Fundamentals of Music
- MUS 11A Music Literature Survey
- MUS 11B Music Literature Survey
- MUS 12 History of Jazz
- MUS 13 Introduction to Music Appreciation
- MUS 13H Introduction to Music Appreciation - Honors
- MUS 14 World Music
- MUS 15 Rock Music History and Appreciation
- PHOT 15 History of Photography
- THTR 9 Introduction to Theatre Arts
- THTR 10 History of Theatre Arts
- THTR 11 Principles of Acting I

Humanities

- CHIN 1 Beginning Chinese
- CHIN 2 Elementary Chinese
- CHIN 3 Intermediate Chinese
- CHIN 4 Intermediate Chinese
- ENGL 1B English - Introduction to Literary Types
- ENGL 1BH English - Introduction to Literary Types - Honors
- FRCH 1 Elementary French
- FRCH 2 Elementary French
- FRCH 3 Intermediate French
- FRCH 4 Intermediate French
- FRCH 60 French Culture Through Cinema
- GERM 1 Elementary German
- GERM 2 Elementary German
- GERM 3 Intermediate German
- GERM 4 Intermediate German
- * HIST 3H History of World Civilization - Honors
- * HIST 4H History of World Civilization - Honors

* Courses may not be double counted to satisfy more than one area, even if a course is listed in more than one area.

General Education Requirements for 2003-2004 (continued)

HUMA	1	The Humanities	ANTH	22	General Cultural Anthropology
ITAL	1	Elementary Italian	ANTH	30	The Native American
ITAL	2	Elementary Italian	BUSC	1A	Principles of Economics - Macroeconomics
ITAL	3	Intermediate Italian	BUSC	1AH	Principles of Economics - Macroeconomics - Honors
ITAL	4	Intermediate Italian	BUSC	1B	Principles of Economics - Microeconomics
ITAL	60	Italian Culture Through Cinema	BUSC	1BH	Principles of Economics - Microeconomics - Honors
JAPN	1	Elementary Japanese	CHLD	1	Child, Family, and Community
JAPN	2	Elementary Japanese	CHLD	10	Child Growth and Development
JAPN	3	Intermediate Japanese	CHLD	10H	Child Growth and Development - Honors
JAPN	4	Intermediate Japanese	GEOG	2	Human Geography
JAPN	5	Advanced Japanese	GEOG	5	World Regional Geography
LIT	1	Early American Literature	GEOG	30	Geography of California
LIT	2	Modern American Literature	HIST	3	History of World Civilization
LIT	6A	Survey of English Literature	* HIST	3H	History of World Civilization - Honors
LIT	6B	Survey of English Literature	HIST	4	History of World Civilization
LIT	11A	World Literature	* HIST	4H	History of World Civilization - Honors
LIT	11B	World Literature	HIST	10	History of Asia
LIT	14	Introduction to Modern Poetry	HIST	11	History of Asia
LIT	15	Introduction to Cinema	HIST	19	History of Mexico
LIT	20	African American Literature	HIST	35	History of Africa
LIT	25	Contemporary Mexican American Literature	HIST	39	California History
LIT	33	Images of Women in Literature	JOUR	2	Mass Media and Society
LIT	35	Science Fiction and Fantasy Survey	POLI	2	Political Science
LIT	36	Introduction to Mythology	POLI	5	Political Science Theory
LIT	46	The Bible as Literature: Old Testament	POLI	9	Introduction to International Relations
LIT	47	The Bible as Literature: New Testament	PSYC	1A	Introduction to Psychology
PHIL	5	Introduction to Philosophy	PSYC	1AH	Introduction to Psychology - Honors
PHIL	5H	Introduction to Philosophy - Honors	* PSYC	25	The Psychology of Women
PHIL	12	Ethics	SOC	1	Sociology
PHIL	12H	Ethics - Honors	SOC	1H	Sociology - Honors
PHIL	15	Major World Religions	SOC	2	Sociology
PHIL	15H	Major World Religions - Honors	SOC	2H	Sociology - Honors
SIGN	80	American Sign Language I	SOC	4	Introduction to Gerontology
SPAN	1	Elementary Spanish	SOC	5	Introduction to Criminology
SPAN	1H	Elementary Spanish - Honors	SOC	14	Marriage and the Family
SPAN	2	Elementary Spanish	SOC	15	Child Development
SPAN	2H	Elementary Spanish - Honors	SOC	20	Sociology of Ethnic Relations
SPAN	3	Intermediate Spanish	SOC	20H	Sociology of Ethnic Relations - Honors
SPAN	3H	Intermediate Spanish - Honors	SPCH	26	Interpersonal Communication
SPAN	4	Intermediate Spanish	SPCH	26H	Interpersonal Communication - Honors
SPAN	11	Spanish for the Spanish Speaking			
SPAN	12	Spanish for the Spanish Speaking			

AREA D:**Social, Political and Economic Institutions (6 units):****U.S. History and American Institutions***Select one [1] course from the following:*

HIST	1	History of the U.S.
HIST	7	History of the U.S.
HIST	7H	History of the U.S. - Honors
HIST	8	History of the U.S.
HIST	8H	History of the U.S. - Honors
HIST	30	History of the African American
HIST	31	History of the African American
HIST	36	Women in American History - Beyond the Stereotypes
HIST	40	History of the Mexican American
POLI	1	Political Science
POLI	1H	Political Science - Honors
POLI	25	Politics of the Mexican American
POLI	35	African American Politics

Elective Courses - *select at least one [1] course from the following list (3 units):*

AGAG	1	Food Production, Land Use and Politics - A Global Prospective
AGFR	20	Conservation of Natural Resources
ANTH	5	Principles of Cultural Anthropology

AREA E:**Lifelong Understanding and Self-Development****3 units):***Select one [1] course from the following:*

AD	3	Chemical Dependency
BIOL	5	Contemporary Health Issues
BIOL	13	Human Reproduction, Development and Aging
BIOL	15	Human Sexuality
BIOL	15H	Human Sexuality - Honors
COUN	5	Career/Life Planning
FCS	41	Life Management
NF	25	Essentials of Nutrition
NF	25H	Essentials of Nutrition - Honors
NF	28	Cultural and Ethnic Foods
NF	63	Basic Nutrition
PE	34	Fitness for Living
PSYC	14	Developmental Psychology
* PSYC	25	The Psychology of Women
PSYC	26	Psychology of Sexuality
PSYC	33	Psychology for Effective Living

* Courses may not be double counted to satisfy more than one area, even if a course is listed in more than one area.

Accounting

ACCOUNTING AND MANAGEMENT DEPARTMENT

Major 20502

Students preparing to become professional accountants should follow the Business Administration course for a four-year college or university. The following is semi-professional 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, or	2.0	
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 in Financial Accounting, or	1.0	
BUSA	81	Work Experience in Accounting	1.0	
BUSA	76	Using Microcomputers in Managerial Accounting, or	1.0	
BUSA	81	Work Experience in Accounting	1.0	
BUSM	20	Principles of Business	3.0	CSU,UC
BUSO	25	Business Communications	3.0	CSU
COMP	16	Microcomputer Applications	3.5	CSU,UC

Total Units 35.5 - 36.5

Administrative Assistant

OFFICE TECHNOLOGY DEPARTMENT

Major 20514

This program is intended to prepare students for employment following graduation as administrative assistants, executive assistants, office managers, or other clerical and support staff. Training in a variety of computer and clerical skills is emphasized. Students desiring a Bachelor's Degree (transfer program) should consult with an advisor to discuss transferability of courses.

Requirements for the Major

Required core courses:

BUSO	5	Business English	3.0	
BUSO	25	Business Communications	3.0	CSU
BUSO	26	Oral Communications for Business	3.0	
COMP	2	Intermediate Computer Keyboarding	4.0	
COMP	12	Microcomputer Applications, or	4.0	CSU,UC
COMP	16	Microcomputer Applications	3.5	CSU,UC
COMP	20	Microsoft Word	4.0	
COMP	28	Office Management Skills	3.0	
COMP	50	Desktop Presentations Using Powerpoint	4.0	CSU
COMP	68	Transcription Techniques	3.0	

PLUS

Select one (1) course from:

COMP	11	Internet Research for Business	2.0	CSU
COMP	13	Using Web Page Software	4.0	CSU
COMP	18	Data Entry	3.0	
COMP	60	Desktop Publishing With InDesign Or PageMaker	4.0	CSU
COMP	62	Desktop Publishing With QuarkXpress	4.0	

Total Units 32.5 - 35.0

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

Advertising Design and Illustration

ART DEPARTMENT

Major 21003

This program is designed to provide students with a combination of critical thinking skills, problem solving capacities, and the technical expertise necessary for entry level employment as a Graphic Designer or Illustrator in Advertising and related Visual Communication industries. Students completing the course are eligible for advanced training or for transfer to a college or university for further study.

Requirements for the Major

Required courses:

ARTC	60	Graphic Design: Lettering and Typography	3.0	CSU
ARTC	66	Portfolio	3.0	
ARTC	70	Computer Graphics: Introduction	3.0	CSU
ARTC	165	Illustration	3.0	CSU
ARTC	171	Computer Graphics 2: Layout and Design With QuarkXpress	3.0	
ARTD	15A	Drawing: Beginning	3.0	CSU,UC
ARTD	17A	Drawing: Life	3.0	CSU,UC
ARTD	20	Design: Two Dimensional	3.0	CSU,UC
ARTD	25A	Painting: Beginning	3.0	CSU,UC

PLUS

Select one (1) course from:

PLUS

ARTA	5	History of Western Art: Renaissance Through Modern or	3.0	CSU,UC
ARTA	5H	History of Western Art: Renaissance Through Modern - Honors, or	3.0	CSU,UC
ARTA	6	History of Modern Art	3.0	CSU,UC

Total Units 30.0

Recommended Electives:

ANIM	172	Motion Graphics With After Effects
ANIM	175	Web Animation With Flash
ARTA	4	History of Western Art: Prehistoric Through Gothic
ARTC	77	Computer Graphics: Illustration
ARTD	16	Drawing-Perspective
ARTD	45	Printmaking: Silk-Screening
ARTS	22	Design: Three-Dimensional
ARTZ	18	Exhibition Design: Art Gallery and Museum Studies
PHOT	10	Beginning Photography

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

Agri-Business

AGRICULTURAL SCIENCES DEPARTMENT

Major 20114

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. 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 or faculty advisor to file an educational plan.

These programs are intended to prepare students for employment following graduation. Students desiring a Bachelor's Degree (transfer program) should consult with the department chairperson or faculty advisor to file an educational plan and to discuss transferability of courses. The curriculum is flexible in nature to allow for previous experience and specialization in a given area of agriculture and agricultural business.

Requirements for the Major

Required courses:

AGAB	20	Microcomputer Applications in Agriculture	3.0	CSU,UC
AGAG	1	Food Production, Land Use and Politics - A Global Perspective	3.0	CSU,UC
AGAG	91	Agricultural Calculations	3.0	
AGAN	1	Animal Science	3.0	CSU,UC
AGOR	1	Horticultural Science	3.0	CSU
AGOR	32	Landscaping and Nursery Management	3.0	CSU
AGPE	70	Pet Shop Management	3.0	
BUSM	20	Principles of Business	3.0	CSU,UC
BUSM	60	Human Relations in Business	3.0	CSU
BUSM	61	Business Organization and Management	3.0	CSU
BUSM	66	Small Business Management	3.0	
BUSS	36	Principles of Marketing	3.0	CSU

Total Units 36.0

Agri-Technology Option

AGRICULTURAL SCIENCES DEPARTMENT

Major 20101

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 or faculty advisor to file an educational plan.

These programs are intended to prepare students for employment following graduation. Students desiring a Bachelor's Degree (transfer program) should consult with the department chairperson or faculty advisor to file an educational plan and to discuss transferability of courses. The curriculum is flexible in nature to allow for previous experience and specialization in a given area or agriculture and agricultural business.

Requirements for the Major

Required courses:

AGAB	20	Microcomputer Applications in Agriculture	3.0	CSU,UC
AGAG	1	Food Production, Land Use and Politics - A Global Perspective	3.0	CSU,UC
AGAG	91	Agricultural Calculations	3.0	
AGAN	1	Animal Science	3.0	CSU,UC
AGOR	1	Horticultural Science	3.0	CSU
AGOR	32	Landscaping and Nursery Management	3.0	CSU
AGOR	56	Engine Diagnostics	3.0	CSU
AGOR	71	Landscape Construction Fundamentals	3.0	CSU

PLUS

Select three (3) courses 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
AGLI	30	Beef Production	3.0	CSU
AGOR	12	Environmental Vegetable Gardening	3.0	CSU,UC
AGOR	24	Integrated Pest Management	3.0	CSU
AGOR	62	Landscape Irrigation - Design and Installation	3.0	CSU
AGPE	70	Pet Shop Management	3.0	
AGPE	71	Canine Management	3.0	

Total Units 33.0 - 34.0

Air Conditioning and Refrigeration

AIR CONDITIONING AND REFRIGERATION DEPARTMENT

Major 20909

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

Requirements for the Major

Required courses:

AIRC	10	Technical Mathematics in Air Conditioning and Refrigeration	2.0
AIRC	11	Welding for Air Conditioning and Refrigeration	1.0
AIRC	12	Air Conditioning Codes and Standards	3.0
AIRC	20	Refrigeration Fundamentals	3.0
AIRC	25	Electrical Fundamentals for Air Conditioning and Refrigeration	4.0
AIRC	26A	Heat Pump Fundamentals	1.5
AIRC	26B	Gas Heating Fundamentals	2.0
AIRC	30	Heat Load Calculations	3.0
AIRC	31	Commercial Electrical for Air Conditioning and Refrigeration	4.0
AIRC	32A	Air Properties and Measurement	1.5
AIRC	32B	Air Distribution Systems	1.5
AIRC	34	Advanced Mechanical Refrigeration	4.0
AIRC	37	Pneumatic Controls	2.0
AIRC	39	Building Automation Systems	4.0
Total Units			36.5

Airframe and Aircraft Powerplant Maintenance Technology

AIRCRAFT AND INDUSTRIAL TECHNOLOGY DEPARTMENT

Major 20911

This program prepares students to enter employment as a certified airframe and powerplant technician in the aircraft 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 (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 an advisor to discuss transferability of courses.

Requirements for the Major

Required courses, day program only:

AIRM	65A	Aircraft Powerplant Maintenance Technology	12.0	CSU
AIRM	65B	Aircraft Powerplant Maintenance Technology	12.0	
AIRM	66A	Airframe Maintenance Technology	12.0	CSU
AIRM	66B	Airframe Maintenance Technology	12.0	
AIRM	70A	Aircraft Maintenance Electricity and Electronics	3.0	
AIRM	70B	Aircraft Maintenance Electricity and Electronics	3.0	
AIRM	71	Aviation Maintenance Science	6.0	
AIRM	72	Aviation Materials and Processes	1.5	
AIRM	73	Aviation Welding	1.5	

Total Units 63.0

or

Required courses, evening program only:

AIRM	90A	Airframe Maintenance Technology	3.0	
AIRM	90B	Airframe Maintenance Technology	3.0	
AIRM	91A	Airframe Maintenance Technology	3.0	
AIRM	91B	Airframe Maintenance Technology	3.0	
AIRM	92A	Airframe Maintenance Technology	3.0	
AIRM	92B	Airframe Maintenance Technology	3.0	
AIRM	93A	Airframe Maintenance Technology	3.0	
AIRM	93B	Airframe Maintenance Technology	3.0	
AIRM	95A	Aircraft Powerplant Maintenance Technology	3.0	
AIRM	95B	Aircraft Powerplant Maintenance Technology	3.0	
AIRM	96A	Aircraft Powerplant Maintenance Technology	3.0	
AIRM	96B	Aircraft Powerplant Maintenance Technology	3.0	
AIRM	97A	Aircraft Powerplant Maintenance Technology	3.0	
AIRM	97B	Aircraft Powerplant Maintenance Technology	3.0	
AIRM	98A	Aircraft Powerplant Maintenance Technology	3.0	
AIRM	98B	Aircraft Powerplant Maintenance Technology	3.0	

AIRM	70A	Aircraft Maintenance Electricity and Electronics	3.0
AIRM	70B	Aircraft Maintenance Electricity and Electronics	3.0
AIRM	71	Aviation Maintenance Science	6.0
AIRM	72	Aviation Materials and Processes	1.5
AIRM	73	Aviation Welding	1.5
Total Units			63.0

Recommended Electives:

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

The Airframe and Aircraft Powerplant Maintenance Technology faculty recommend that you complement your studies with selected elective courses chosen from the list above. You should meet with a professor of Airframe and Aircraft Powerplant Maintenance Technology to help you determine which of those electives best suit your career plans.

Alcohol/Drug Counseling

PUBLIC SERVICES DEPARTMENT

Major 22101

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-dependent settings.

Requirements for the Major

Required core courses:

AD	1	Alcohol/Drug Dependency	3.0	CSU
AD	2	Physiological Effects of Alcohol/Drugs	3.0	CSU
AD	3	Chemical Dependency: Intervention, Treatment and Recovery	3.0	CSU
AD	4	Issues in Domestic Violence	3.0	
AD	5	Chemical Dependency: Prevention and Education	1.5	CSU
AD	6	Dual Diagnosis	3.0	CSU

Required skill courses:

AD	8	Group Process and Leadership	3.0	
AD	9	Family Counseling	3.0	
AD	10	Client Record and Documentation	1.5	
AD	11	Techniques of Intervention and Referral	3.0	

Required field work courses:

AD	13	Internship/Seminar	3.5	CSU
AD	14	Advanced Internship/Seminar	3.5	CSU

PLUS

Select six (6) units from:

CHLD	10	Child Growth and Development, or	3.0	CSU,UC
CHLD	10H	Child Growth and Development - Honors	3.0	CSU,UC
PSYC	1A	General Psychology	3.0	CSU,UC
PSYC	19	Abnormal Psychology	3.0	CSU,UC
SOC	1	Sociology	3.0	CSU,UC
SOC	14	Marriage and the Family	3.0	CSU,UC
SOC	15	Child Development	3.0	CSU,UC

Total Units 40.0

Admission Requirements and Selection Procedures

Admission Requirements

- File a College application and be accepted as a student at Mt. San Antonio College.

Selection Procedures

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.
- Restricted Electives can be taken in conjunction with core and skills courses.
- Refer to Schedule of Credit Classes for sequence of courses.
- For questions call Professor Paul Sharpe at Ext. 4654 or the Division Office at Ext. 4750.

Animation

ART DEPARTMENT

Major 21006

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

Requirements for the Major

Required courses:

ANIM	101	Drawing - Gesture and Figure	3.0	
ANIM	104	Drawing Fundamentals, or	3.0	CSU
ARTD	15A	Drawing: Beginning, or	3.0	CSU,UC
ANIM	4	Drawing Fundamentals	3.0	CSU
ANIM	108	Principles of Animation	3.0	
ANIM	115	Storyboarding	3.0	
ANIM	116	Character Development	1.5	
ANIM	119	Portfolio	1.5	
ANIM	130	Introduction to 3-D Computer Animation	3.0	
ARTC	70	Computer Graphics: Introduction	3.0	CSU
ARTD	17A	Drawing: Life	3.0	CSU,UC
ARTD	20	Design: Two Dimensional	3.0	CSU,UC
ARTS	22	Design: Three-Dimensional	3.0	CSU,UC

PLUS

Select two (2) courses from:

ANIM	117	Layout Design	3.0	
ANIM	120	Script Development for Animation	3.0	
ANIM	142	Modeling, Texture Mapping and Lighting	3.0	
ANIM	175	Web Animation With Flash	3.0	
ARTD	16	Drawing-Perspective	3.0	CSU,UC

Total Units 36.0

Recommended Electives:

ANIM	107	Figure in Motion
ANIM	109	Assistant Animation/Inbetweening
ANIM	111	Animal Drawing
ANIM	118	Background Painting
ANIM	120	Script Development for Animation
ANIM	134	Dynamic Digital Environments
ANIM	135	Particle Systems
ANIM	138	Demo-Reel Development
ARTA	4	History of Western Art: Prehistoric Through Gothic
ARTA	5	History of Western Art: Renaissance Through Modern
ARTD	25A	Painting: Beginning

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

Architectural Technology

ARCHITECTURE AND DESIGN DEPARTMENT

Major 20201

This program is intended to prepare 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. The student will be required to develop both design and working drawing portfolios. Current technology and computer (CADD) skills are integrated into the program. A Certificate Program is also available.

Requirements for the Major

Required courses:

ARCH	10	Design I - Elements of Design	3.0	CSU
ARCH	11	Architectural Drawing	3.0	CSU,UC
ARCH	12	Materials and Specifications	3.0	CSU
ARCH	13	Architectural Illustration	3.0	CSU,UC
ARCH	14	Building and Zoning Codes	3.0	
ARCH	15	Architectural Working Drawings-Residential	3.0	CSU
ARCH	16	Basic CAD and Computer Application	4.0	CSU,UC
ARCH	18	Architectural Computer Aided Design Elements	3.0	
ARCH	21	Design II - Architectural Design	3.0	CSU
ARCH	23	Architectural Presentations	3.0	CSU
ARCH	26	Architectural CAD Working Drawings	3.0	
ARCH	27	Design III - Environmental Design	3.0	CSU,UC
ARCH	28	Architectural CAD 3-D Illustration and Animation	3.0	CSU
ARCH	29	Design IV - Advanced Project	3.0	CSU
EDT	20	Technical Descriptive Geometry	3.0	CSU
Total Units			46.0	

Recommended Electives:

NOTE: ARTA, ARTC, ARTD, ARTS, and ID courses are recommended for transfer portfolios.

ARCH	89	Architectural Work Experience
ARTA	5	History of Western Art: Renaissance Through Modern
ARTD	15A	Drawing: Beginning
ARTD	20	Design: Two Dimensional
ARTS	22	Design: Three-Dimensional
EDT	26	Civil Engineering Technology and CAD
ID	130	Applied Color and Design Theory
INSP	67	Reading Construction Drawings
INSP	70	Elements of Construction
INSP	71	Construction Estimating

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

Aviation Science

AERONAUTICS AND TRANSPORTATION DEPARTMENT

Major 20910

This curriculum meets the requirements of the Federal Aviation Administration Collegiate Training Initiative (CTI). Under an educational partnership agreement with the FAA, this CTI program prepares students for broad-based aviation careers. Students completing this CTI program may be recommended by the college for hiring by the FAA as air traffic controllers.

Requirements for the Major

Required courses:

AERO	23	Primary Pilot Ground School	4.0	CSU
AERO	24	Navigation	3.0	CSU
AERO	26	Aviation Weather	3.0	CSU
AERO	27	Aviation Safety and Human Factors	3.0	CSU
AERO	29	Federal Aviation Regulations	2.0	CSU
AERO	30	Instrument Ground School	3.0	CSU
AIRT	41	Aircraft Recognition and Performance	2.0	CSU
AIRT	42	Air Traffic Control Environment	3.0	CSU
AIRT	43	Air Traffic Control Team Skills	1.5	CSU
CIS	10A	Computer Information Systems	3.5	CSU,UC
TRAN	17	Air Transportation	3.0	CSU

Total Units 31.0

Recommended Electives:

AERO	25	Commercial Pilot Ground School
AERO	28	Aircraft and Engines
AERO	40	Flight
AERO	40L	Flight Laboratory
BUSM	60	Human Relations in Business

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

Business Management

ACCOUNTING AND MANAGEMENT DEPARTMENT

Major 20506

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

Requirements for the Major

Required courses:

BUSA	7	Principles of Accounting - Financial	5.0	CSU,UC
BUSM	10	Principles of Continuous Quality Improvement	3.0	
BUSM	20	Principles of Business	3.0	CSU,UC
BUSM	51	Principles of International Business	3.0	
BUSM	60	Human Relations in Business	3.0	CSU
BUSM	61	Business Organization and Management	3.0	CSU
BUSM	62	Human Resource Management	3.0	
BUSS	36	Principles of Marketing	3.0	CSU
COMP	16	Microcomputer Applications	3.5	CSU,UC

Total Units 29.5

Recommended Electives:

BUSM	81	Work Experience in Business, or
BUSM	82	Work Experience in Business, or
BUSM	83	Work Experience in Business, or
BUSM	84	Work Experience in Business
BUSM	85	Special Issues in Business, or
BUSS	85	Special Issues in Marketing

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

Business - Retail Management

ACCOUNTING AND MANAGEMENT DEPARTMENT

Major 20509

This program exposes students to the business world and the role of retail distribution. Students become familiar with careers in retail management as well as the latest trends in this fast changing field. Completion of this program aids the student's search for an entry-level job in retail management.

Requirements for the Major

Required courses:

BUSA	7	Principles of Accounting - Financial, or	5.0	CSU,UC
BUSA	72	Bookkeeping - Accounting	5.0	
BUSA	11	Fundamentals of Accounting	3.0	
BUSM	60	Human Relations in Business	3.0	CSU
BUSM	61	Business Organization and Management	3.0	CSU
BUSM	62	Human Resource Management	3.0	
BUSO	25	Business Communications	3.0	CSU
BUSO	26	Oral Communications for Business	3.0	
BUSS	36	Principles of Marketing	3.0	CSU
COMP	16	Microcomputer Applications	3.5	CSU,UC
FASH	62	Retail Store Management and Merchandising, or	3.0	CSU
BUSS	50	Retail Store Management and Merchandising	3.0	
Total Units			32.5	

Child Development

FAMILY AND CONSUMER SCIENCES DEPARTMENT

Major 21315

This program introduces students to the study of young children and their education, and prepares students for employment following graduation, in the field of Child Development. An Associate in Science Degree and nine (9) certificates are offered. Students desiring a Bachelor's Degree (transfer program) should consult with an advisor to discuss transferability of courses.

Requirements for the Major

Required courses:

CHLD	1	Child, Family and Community	3.0	CSU,UC
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, or	3.0	CSU,UC
CHLD	10H	Child Growth and Development - Honors, or	3.0	CSU,UC
SOC	15	Child Development	3.0	CSU,UC
CHLD	64	Health, Safety and Nutrition of Young Children	3.0	
CHLD	66	Early Childhood Development Observation	2.0	CSU
CHLD	66L	Early Childhood Development Observation Laboratory	1.0	CSU
CHLD	67	Early Childhood Development Participation	2.0	CSU
CHLD	67L	Early Childhood Development Participation Laboratory	1.0	CSU
CHLD	68	Children with Special Needs	3.0	CSU
CHLD	69	Early Childhood Development Field Work Seminar	2.0	
CHLD	84	Guidance and Discipline in Child Development Settings	1.0	
CHLD	91	Early Childhood Development Field Work	1.0	
			Total Units	28.0

Note: These courses are acceptable for the Child Development requirements leading to the Child Development Permit.

Recommended Electives:

CHLD	50	Multicultural Education: Anti-Bias Perspective
CHLD	61	Language Arts & Art Media for Young Children
CHLD	62	Music and Motor Development for Young Children
CHLD	63	Creative Sciencing and Math for Young Children
CHLD	71A	Administration of Early Childhood Programs
CHLD	71B	Management/Marketing/Personnel for ECD Programs
CHLD	72	Parent/Child Relations
CHLD	73	Infant/Toddler Care and Development
MUS	7	Fundamentals of Music
NF	63	Basic Nutrition
SPAN	1	Elementary Spanish, or
SPAN	1H	Elementary Spanish - Honors

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

Commercial Flight

AERONAUTICS AND TRANSPORTATION DEPARTMENT

Major 20912

The Commercial Flight curriculum prepares students for careers as aircraft pilots, as well as related ground occupations in aviation. Students have the opportunity for optional flight training with commensurate college credit. The pilot license is not required for graduation, but it is desirable for career advancement.

This program prepares students for military and civilian aviation careers through transfer programs to Bachelor's Degree aviation curricula throughout the nation. With concurrent flight training, students may achieve the commercial pilot certificate and instrument rating simultaneously with the A.S. Degree.

Requirements for the Major

Required courses:

AERO	23	Primary Pilot Ground School	4.0	CSU
AERO	24	Navigation	3.0	CSU
AERO	25	Commercial Pilot Ground School	3.0	CSU
AERO	26	Aviation Weather	3.0	CSU
AERO	27	Aviation Safety and Human Factors	3.0	CSU
AERO	28	Aircraft and Engines	3.0	CSU
AERO	29	Federal Aviation Regulations	2.0	CSU
AERO	30	Instrument Ground School	3.0	CSU
TRAN	17	Air Transportation	3.0	CSU

Total Units 27.0

Recommended Electives:

AERO	40	Flight
AERO	40L	Flight Laboratory
AERO	41	Basic Flight Simulator Laboratory
AERO	58	Flight Instructor Ground School
AIRT	41	Aircraft Recognition and Performance
CIS	10A	Computer Information Systems

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

Computer and Networking Technology

ELECTRONICS AND COMPUTER TECHNOLOGY DEPARTMENT

Major 20725

The Computer and Networking Technology Major and Certificate is intended to prepare students to enter the computer and networking fields as service technicians. It encompasses multi-divisional coursework from the Technology and Health Division and the Business Division. The program provides foundations in basic electronics, telecommunications, computer servicing, and networking servicing. Skills are developed so that students can provide customer service in the installation, software configuration, maintenance, operation, troubleshooting and repair of computers and their associated networking software/hardware. In addition to acquiring specialized skills in computer and networks servicing, the student will be prepared to take the A+ and Network+ certification tests offered at testing centers throughout the country. These certifications are recognized industry benchmarks for the computer and networking technician. Further, the student will have the requisite skills upon which to build in order to seek additional certifications that are available for the computer and networking fields.

Requirements for the Major

Required courses:

CIS	24	Telecommunications	4.0	CSU
CIS	37	Microsoft NT Network System Administration	4.0	CSU
ECNT	50	PC Servicing	4.0	
ECNT	52	PC Operating Systems	4.0	
ECNT	54	PC Troubleshooting	4.0	
ECNT	56	Computer Networks	4.0	
ECNT	60	A+ Certification Preparation	3.0	
ECNT	62	Network+ Certification Preparation	3.0	
ELEC	11	Technical Applications in Microcomputers, and	2.0	CSU
ELEC	11L	Technical Applications in Microcomputers Laboratory, or	1.0	CSU
COMP	16	Microcomputer Applications	3.5	CSU,UC
ELEC	50A	Electronics Theory	2.0	CSU
ELEC	50AL	Electronics Laboratory	1.0	CSU
ELEC	50B	Electronics Theory	2.0	CSU
ELEC	50BL	Electronics Laboratory	1.0	CSU
ELEC	56	Digital Electronics	3.0	CSU
ELEC	56L	Digital Electronics Laboratory	1.0	CSU

Total Units 43.0 - 43.5

Computer Graphic Design/Photography

EARTH SCIENCES, PHOTOGRAPHY, ASTRONOMY DEPARTMENT

Major 21005

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 an advisor or catalog of the institution they wish to attend to discuss transferability of courses.

Requirements for the Major

Required courses:

GRAP	49	Graphic Design With Freehand and Other Drawing Programs	4.0	
GRAP	50	Computer Graphics Lab	1.0	
GRAP	51	Digital Typographic Layout and Composition	3.0	
GRAP	52A	Graphic Design With Adobe Photoshop	3.0	
GRAP	52B	Advanced Graphic Design With Adobe Photoshop	3.0	
GRAP	53	Digital Portfolio Development	2.0	
GRAP	54	Authoring for Visual Media	3.0	
PHOT	10	Beginning Photography	3.0	CSU,UC
PHOT	15	History of Photography	3.0	CSU,UC
PHOT	17	Photocommunication	3.0	
PHOT	20	Color Photography	3.0	
			Total Units	31.0

Recommended Electives:

BUSA	11	Fundamentals of Accounting
BUSS	36	Principles of Marketing
GRAP	48	Introduction to Digital Design Systems
PHOT	8	Beginning Digital Photography

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

Computer Programmer - C++

COMPUTER INFORMATION SYSTEMS DEPARTMENT

Major 20704

The Computer Information Systems major is a two-year program leading to the Associate in Science (A.S.) Degree. It prepares individuals for employment in the computer field in such positions as application development, systems analysis, and telecommunications.

The courses in Computer Information Systems emphasize the development of applications in a business environment. They introduce the latest technologies including development of graphical user interfaces using object-oriented methodologies and client/server applications.

The program is designed to prepare students for employment following graduation. Students wishing a Bachelor's Degree (transfer program) should meet with an advisor to discuss transferability of courses. Additional recommended courses for transfer are BUSA 8 and BUSL 18.

Course work includes a list of core courses and additional courses for each option.

The object oriented C++ language is available on many platforms. It is used extensively in the development of applications on microcomputers and is known for its power and flexibility.

Requirements for the Major

Required core courses:

BUSA	7	Principles of Accounting - Financial	5.0	CSU,UC
CIS	10A	Computer Information Systems	3.5	CSU,UC
CIS	20	Systems Analysis and Design	3.5	CSU,UC
CIS	47	Client/Server Architecture, or	4.0	
CIS	51	Programming in Java	4.0	CSU,UC
CIS	48	Computer Information Systems Seminar	4.0	
COMP	16	Microcomputer Applications	3.5	CSU,UC

Plus the following courses:

CIS	19	Windows Operating System	4.0	
CIS	23	Database Management - Microcomputers	4.0	CSU
CIS	31	Programming in C++	4.0	CSU,UC
CIS	41	Advanced C++ Programming	4.0	CSU,UC

Total Units 39.5

Computer Programmer - COBOL

COMPUTER INFORMATION SYSTEMS DEPARTMENT

Major 20705

The Computer Information Systems major is a two-year program leading to the Associate in Science (A.S.) Degree. It prepares individuals for employment in the computer field in such positions in application development, systems analysis, and telecommunications.

The courses in Computer Information Systems emphasize the development of applications in a business environment. They introduce the latest technologies including development of graphical user interfaces using object-oriented methodologies and client/server applications.

The program is designed to prepare students for employment following graduation. Students wishing a Bachelor's Degree (transfer program) should meet with an advisor to discuss transferability of courses. Additional recommended courses for transfer are BUSA 8 and BUSL 18.

Course work includes a list of core courses and additional courses for each option.

COBOL is a common business language with a large base of applications in use in industry. These applications require an understanding of the language to maintain the existing files. The implementation addresses multiple platforms including midrange and PC based systems.

Requirements for the Major

Required core courses:

BUSA	7	Principles of Accounting - Financial	5.0	CSU,UC
CIS	10A	Computer Information Systems	3.5	CSU,UC
CIS	20	Systems Analysis and Design	3.5	CSU,UC
CIS	47	Client/Server Architecture	4.0	
CIS	48	Computer Information Systems Seminar	4.0	
COMP	16	Microcomputer Applications	3.5	CSU,UC

Plus the following courses:

CIS	13	AS/400 System Administration	4.0	
CIS	26	COBOL	4.0	CSU,UC
CIS	35	Database Management	4.0	
CIS	36	Advanced COBOL	4.0	CSU,UC

Total Units 39.5

Computer Programmer - Database Management System

COMPUTER INFORMATION SYSTEMS DEPARTMENT

Major 20706

The Computer Information Systems major is a two-year program leading to the Associate in Science (A.S.) Degree. It prepares individuals for employment in the computer field in such positions in application development, systems analysis, and telecommunications.

The courses in Computer Information Systems emphasize the development of applications in a business environment. They introduce the latest technologies including development of graphical user interfaces using object-oriented methodologies and client/server applications.

The program is designed to prepare students for employment following graduation. Students wishing a Bachelor's Degree (transfer program) should meet with an advisor to discuss transferability of courses. Additional recommended courses for transfer are BUSA 8 and BUSL 18.

Course work includes a list of core courses and additional courses for each option.

This option concentrates on the design, development, and maintenance of relational databases on microcomputers. Applications are developed using power-user and programming techniques.

Requirements for the Major

Required core courses:

BUSA	7	Principles of Accounting - Financial	5.0	CSU,UC
CIS	10A	Computer Information Systems	3.5	CSU,UC
CIS	20	Systems Analysis and Design	3.5	CSU,UC
CIS	47	Client/Server Architecture	4.0	
CIS	48	Computer Information Systems Seminar	4.0	
COMP	16	Microcomputer Applications	3.5	CSU,UC

Plus the following courses:

CIS	23	Database Management - Microcomputers	4.0	CSU
CIS	33	Advanced Database Management - Microcomputers	4.0	
CIS	35A	Database Management	4.0	
CIS	35B	Oracle Forms and Reports	4.0	
CIS	52	Web Based Applications With PL/SQL	4.0	CSU

Total Units 43.5

Computer Programmer - RPG

COMPUTER INFORMATION SYSTEMS DEPARTMENT

Major 20707

The Computer Information Systems major is a two-year program leading to the Associate in Science (A.S.) Degree. It prepares individuals for employment in the computer field in such positions in application development, systems analysis, and telecommunications.

The courses in Computer Information Systems emphasize the development of applications in a business environment. They introduce the latest technologies including development of graphical user interfaces using object-oriented methodologies and client/server applications.

The program is designed to prepare students for employment following graduation. Students wishing a Bachelor's Degree (transfer program) should meet with an advisor to discuss transferability of courses. Additional recommended courses for transfer are BUSA 8 and BUSL 18.

Course work includes a list of core courses and additional courses for each option.

RPG is the language of choice on many midrange systems. It is designed for database management and report generation in a business environment.

Requirements for the Major

Required core courses:

BUSA	7	Principles of Accounting - Financial	5.0	CSU,UC
CIS	10A	Computer Information Systems	3.5	CSU,UC
CIS	20	Systems Analysis and Design	3.5	CSU,UC
CIS	47	Client/Server Architecture	4.0	
CIS	48	Computer Information Systems Seminar	4.0	
COMP	16	Microcomputer Applications	3.5	CSU,UC

Plus the following courses:

CIS	13	AS/400 System Administration	4.0	
CIS	14	AS/400 Advanced System Administration	4.0	
CIS	34	RPG IV & ILE Programming	4.0	
CIS	35A	Database Management	4.0	
CIS	44	Advanced RPG/400 Programming	4.0	

Total Units 43.5

Computer Programmer - Telecommunications

COMPUTER INFORMATION SYSTEMS DEPARTMENT

Major 20708

The Computer Information Systems major is a two-year program leading to the Associate in Science (A.S.) Degree. It prepares individuals for employment in the computer field in such positions as application development, systems analysis, and telecommunications.

The courses in Computer Information Systems emphasize the development of applications in a business environment. They introduce the latest technologies, including development of graphical user interfaces using object-oriented methodologies and client/server applications.

The program is designed to prepare students for employment following graduation. Students wishing a Bachelor's Degree (transfer program) should meet with an advisor to discuss transferability of courses. Additional recommended courses for transfer are BUSA 8 and BUSL 18.

Course work includes a list of core courses and additional courses for each option.

The network option focuses on the communication of data between systems. Topics include network infrastructure, protocols, and the Internet.

Requirements for the Major

Required core courses:

BUSA	7	Principles of Accounting - Financial	5.0	CSU,UC
CIS	10A	Computer Information Systems	3.5	CSU,UC
CIS	20	Systems Analysis and Design	3.5	CSU
CIS	47	Client/Server Architecture	4.0	
CIS	48	Computer Information Systems Seminar	4.0	
COMP	16	Microcomputer Applications	3.5	CSU

Plus the following courses:

CIS	24	Telecommunications	4.0	CSU
CIS	27	Novell Netware Systems Administration, or	4.0	CSU
CIS	37	Microsoft NT Network System Administration	4.0	CSU
CIS	40	Advanced Telecommunications	4.0	
COMP	14	The Internet	4.0	CSU

Total Units 39.5

Computer Programmer - Visual Basic

COMPUTER INFORMATION SYSTEMS DEPARTMENT

Major 20709

The Computer Information Systems major is a two-year program leading to the Associate in Science (A.S.) Degree. It prepares individuals for employment in the computer field in such positions in application development, systems analysis, and telecommunications.

The courses in Computer Information Systems emphasize the development of applications in a business environment. They introduce the latest technologies including development of graphical user interfaces using object-oriented methodologies and client/server applications.

The program is designed to prepare students for employment following graduation. Students wishing a Bachelor's Degree (transfer program) should meet with an advisor to discuss transferability of courses. Additional recommended courses for transfer are BUSA 8 and BUSL 18.

Course work includes a list of core courses and additional courses for each option.

Visual Basic is a leading development tool in the Windows environment and in client/server applications. This objected-based language is used to develop graphical user interfaces and to customize Windows.

Requirements for the Major

Required core courses:

BUSA	7	Principles of Accounting - Financial	5.0	CSU,UC
CIS	10A	Computer Information Systems	3.5	CSU,UC
CIS	20	Systems Analysis and Design	3.5	CSU,UC
CIS	47	Client/Server Architecture	4.0	
CIS	48	Computer Information Systems Seminar	4.0	
COMP	16	Microcomputer Applications	3.5	CSU,UC

Plus the following courses:

CIS	19	Windows Operating System	4.0	
CIS	23	Database Management - Microcomputers	4.0	CSU
CIS	28	Basic Programming	4.0	CSU,UC
CIS	38	Advanced Basic Programming	4.0	CSU,UC

Total Units 39.5

Construction Inspection

ARCHITECTURE AND DESIGN DEPARTMENT

Major 20920

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

Requirements for the Major

Required courses:

ARCH	12	Materials and Specifications	3.0	CSU
ARCH	14	Building and Zoning Codes	3.0	
INSP	17	Legal Aspects of Construction	3.0	CSU
INSP	70	Elements of Construction	3.0	CSU
INSP	71	Construction Estimating	3.0	CSU
INSP	87	Fundamentals of Construction Inspection	3.0	
			Total Units	18.0

Recommended Electives:

ARCH	11	Architectural Drawing
ARCH	15	Architectural Working Drawings - I
INSP	67	Reading Construction Drawings

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

Correctional Sciences

PUBLIC SERVICES DEPARTMENT

Major 22103

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 an advisor to discuss transferability of courses.

Requirements for the Major

Required courses:

ADJU	68	Administration of Justice Report Writing	3.0	
CORS	10	Introduction to Correctional Sciences	3.0	CSU
CORS	15	Control and Supervision of the Offender	3.0	
CORS	20	Correctional Law	3.0	
CORS	25	Probation and Parole	3.0	
CORS	30	Ethnic Relations in Corrections	3.0	

PLUS

Select four (4) courses from:

ADJU	1	The Administration of Justice System	3.0	CSU,UC
ADJU	2	Principles and Procedures of the Justice System	3.0	CSU
ADJU	20	Principles of Investigation	3.0	CSU
ADJU	38	Narcotics Investigation	3.0	
ADJU	59	Street Gangs and Law Enforcement	3.0	
CORS	35	Interviewing and Counseling in Corrections	3.0	
CORS	40	Crime and Delinquency	3.0	
CORS	45	The Violent Offender	3.0	

Total Units 30.0

Recommended Electives:

PE-F	50	Physical Skills Preparation for Law Enforcement and Fire Science
PE-F	51	Agility Testing Preparation for Law Enforcement and Fire Science
PE-F	52	Fitness and Conditioning for Law Enforcement, Fire Science and Forestry
SPAN	66	Spanish for Fire and Police Personnel

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

Design For Interactive Visual Media

EARTH SCIENCES, PHOTOGRAPHY, ASTRONOMY DEPARTMENT

Major 21004

This program is designed to prepare students for employment in the field of interactive media graphics. A variety of career opportunities are available in the arts, cinema, communications, industrial arts, graphics, and journalism. Students desiring a Bachelor's Degree should consult with an advisor or catalog of the institution they wish to attend to discuss transferability of courses.

Requirements for the Major

Required courses:

GRAP	49	Graphic Design With Freehand and Other Drawing Programs	4.0	
GRAP	51	Digital Typographic Layout and Composition	3.0	
GRAP	52A	Graphic Design With Adobe Photoshop	3.0	
GRAP	53	Digital Portfolio Development	2.0	
GRAP	54	Authoring for Visual Media	3.0	
GRAP	56	Design for Visual Media	3.0	
GRAP	58	Modeling for Visual Media	3.0	
GRAP	60	Advanced Modeling for Visual Media	3.0	
PHOT	10	Beginning Photography	3.0	CSU,UC
PHOT	20	Color Photography	3.0	
Total Units			30.0	

Recommended Electives:

GRAP	48	Introduction to Digital Design Systems
PHOT	8	Beginning Digital Photography

Desktop Publishing

OFFICE TECHNOLOGY DEPARTMENT

Major 20711

This program is intended to prepare students for employment, following graduation. Training in a variety of computer skills is emphasized. This program will afford career opportunities in businesses desiring desktop publishing skills or in starting your own business. Students desiring a Bachelor's Degree (transfer program) should consult with an advisor to discuss transferability of courses.

Requirements for the Major

Required courses:

BUSO	5	Business English	3.0	
COMP	1A	Computer Keyboarding, or	2.0	CSU
COMP	1	Computer Keyboarding	4.0	CSU
COMP	11	Internet Research for Business	2.0	CSU
COMP	60	Desktop Publishing With InDesign Or PageMaker	4.0	CSU
COMP	62	Desktop Publishing With QuarkXpress	4.0	
COMP	63	Adobe Illustrator for Desktop Publishers	4.0	
COMP	64	Desktop Publishing Seminar	2.5	
COMP	65	Modifying Images for Desktop Publishing, or	4.0	
GRAP	52A	Graphic Design with Adobe Photoshop	3.0	

PLUS

Select one (1) course from:

ARTD	20	Design: Two Dimensional	3.0	CSU,UC
BUSO	25	Business Communications	3.0	CSU
BUSO	26	Oral Communications for Business	3.0	
COMP	13	Using Web Page Software	4.0	CSU
COMP	50	Desktop Presentations Using PowerPoint	4.0	CSU

Total Units 27.5 - 31.5

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

Electronics and Computer Engineering Technology

ELECTRONICS AND COMPUTER TECHNOLOGY DEPARTMENT

Major 20906

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

This program is intended to prepare students for employment in electronic industries or for transfer into Electronic and Computer Engineering Technology or Industrial Technology programs at various universities in the CSU system. Many of the courses directly articulate to courses offered at the CSUs. Typical technician job classifications this program covers include field service technician, field engineer, computer service technician, customer service technician, communications technician, maintenance technician, and electronics technician.

Two 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. All students completing an Electronic A.S. Degree program are automatically eligible to receive, without further examination, the N.A.R.T.E. 3rd Class Technician License; and all students completing certificate programs are automatically eligible to receive, without further examination, the N.A.R.T.E. 4th Class Technician License.

Requirements for the Major

Required courses:

ELEC	11	Technical Applications in Microcomputers	2.0	CSU
ELEC	11L	Technical Applications in Microcomputers Laboratory	1.0	CSU
ELEC	12	Computer Simulation and Troubleshooting	1.0	
ELEC	12L	Computer Simulation and Troubleshooting Laboratory	1.0	
ELEC	50A	Electronics Theory	2.0	CSU
ELEC	50AL	Electronics Laboratory	1.0	CSU
ELEC	50B	Electronics Theory	2.0	CSU
ELEC	50BL	Electronics Laboratory	1.0	CSU
ELEC	51	Electronic Devices Theory	3.0	CSU
ELEC	51L	Electronic Devices Laboratory	1.0	CSU
ELEC	53	Communications Circuits Theory	3.0	
ELEC	53L	Communications Circuits Laboratory	1.0	
ELEC	54A	Industrial Circuits Theory	3.0	CSU
ELEC	54AL	Industrial Circuits Laboratory	1.0	CSU
ELEC	54B	Industrial Electronic Systems	2.0	
ELEC	54BL	Industrial Electronic Systems Laboratory	1.0	
ELEC	55	Microwave Communications	3.0	
ELEC	55L	Microwave Communications Laboratory	1.0	
ELEC	56	Digital Electronics	3.0	CSU
ELEC	56L	Digital Electronics Laboratory	1.0	CSU
ELEC	61	Electronic Assembly and Fabrication	1.0	CSU
ELEC	61L	Electronic Assembly and Fabrication Laboratory	1.0	CSU
ELEC	74	Microprocessor/Microcomputer Systems and Interfacing	3.0	CSU
ELEC	74L	Microprocessor/Microcomputer Systems and Interfacing Lab	1.0	CSU
ELMA	65A	Mathematics of Electronics	2.0	CSU
ELMA	65B	Mathematics of Electronics	2.0	CSU

Total Units 44.0

Recommended Electives:

CIS	27	Novell Netware Systems Administration
CIS	28	Basic Programming
CIS	31	Programming in C++
COMP	1A	Computer Keyboarding
EDT	11	Technical Engineering Drawing I
ELEC	76	Radio Telephone Communications
PHYS	2AG	General Physics

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

Emergency Medical Services

MEDICAL SERVICES DEPARTMENT

Major 21210

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.

Requirements for the Major

Required courses:

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

Total Units 37.0

Recommended Electives:

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

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

Special Information

To remain in the program, students must maintain a grade of "C" (80%) or better in all courses, per state regulations.

Upon successful completion of the required courses, students are granted a Certificate of Completion for the Paramedic Program. Students are then eligible for licensure by taking and passing both the National Registry Exam and County Paramedic Certification and accreditation exams.

Admission Requirements and Selection Procedures

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

4. Submit an application for the Paramedic Program to the Technology and Health Division Office (909)594-5611, Ext. 4750. All applications are dated upon receipt in the Technology and Health Division Office. The Paramedic Program begins three (3) times per year, in August, January, and April and runs for 26 weeks.
5. Take the College placement examination, AWE (Assessment of Written English) and MDTP (math) at least ten working days before the start of the pre-course. Placement examinations will be individually assessed to determine eligibility. If a college placement examination (ASSET, CPP, ACT, SAT) has been taken within the past two (2) years at another school, arrange to have the scores forwarded to the Technology and Health Division Office. (If tested at Mt. San Antonio College, the Technology and Health Division Office will obtain the test scores provided an "Application for Admission" is on file with the Admissions and Records Office.)

The placement test is administered by the Assessment Center, located in the Student Services Center. If required, arrange with the Center a day and a time to take the examination. The Assessment Center (909)594-5611 Ext. 4265, is open Monday through Friday.

6. Successful completion of EMS I—Fundamentals for Paramedics.
7. Forward two (2) official transcripts of all course work 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.

EXAMPLE: 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 malpractic insurance 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.

Selection Procedure:

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

1. Date of application
2. Completion of all admission requirements
3. Units in college and related EMS areas
4. EMS-related experience
5. Placement in EMS-1—Fundamentals for Paramedics and scores on college placement exam for English and math.

Engineering Design Technology

ARCHITECTURE AND DESIGN DEPARTMENT

Major 20913

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 transfer advisor to develop an individualized plan of transferable courses and math requirements.

Requirements for the Major

Required courses:

EDT	11	Technical Engineering Drawing I	3.0	CSU
EDT	12	Technical Engineering Drawing II	3.0	CSU
EDT	14	Mechanical Design - Geometric Dimensioning and Tolerancing	3.0	CSU
EDT	16	Basic CAD and Computer Applications	4.0	CSU
EDT	18	Engineering CAD Applications	4.0	CSU
EDT	20	Technical Descriptive Geometry	3.0	CSU
EDT	24	Engineering CAD 3-D Solids and Surfaces	3.0	CSU
EDT	26	Civil Engineering Technology and CAD	3.0	CSU
EDT	28	Engineering CAD 3-D Illustration/Animation	3.0	CSU
ELEC	50A	Electronics Theory	2.0	CSU
ELEC	50AL	Electronics Laboratory	1.0	CSU
ELEC	50B	Electronics Theory	2.0	CSU
ELEC	50BL	Electronics Laboratory	1.0	CSU
MFG	90	Manufacturing Processes for Designers I	2.0	CSU

Total Units 37.0

Recommended Electives:

EDT	89	Engineering Design Technology Work Experience
ENGR	8	Properties of Materials

Equipment Technology

AGRICULTURAL SCIENCES DEPARTMENT

Major 20118

The program of courses in Agriculture is designed to enable students to prepare for a career in this essential and diverse profession. The Department offers a comprehensive Agricultural Sciences Program and is unique in that most courses provide hands-on experience designed to give the student a combination of practical skills and technical knowledge. Students who intend to transfer should check the lower division requirements in the catalog of the college or university which they will attend and also the semester and year in which courses are offered.

The following programs list all courses needed to satisfy major requirements. Students may obtain certificates upon completion of required courses listed. It is recommended that all students consult with the department chairperson or faculty advisor to file an educational plan.

These programs are intended to prepare students for employment following graduation. Students desiring a Bachelor's Degree (transfer program) should consult with the department chairperson or faculty advisor to file an educational plan and to discuss transferability of courses. The curriculum is flexible in nature to allow for previous experience and specialization in a given area of agriculture and agricultural business.

Requirements for the Major

Required courses:

AGAB	20	Microcomputer Applications in Agriculture	3.0	CSU,UC
AGAG	1	Food Production, Land Use and Politics - A Global Perspective	3.0	CSU,UC
AGAG	59	Work Experience in Agriculture, or	1.0	
AGAG	60	Work Experience in Agriculture, or	2.0	
AGAG	61	Work Experience in Agriculture, or	3.0	
AGAG	62	Work Experience in Agriculture	4.0	
AGAG	91	Agricultural Calculations	3.0	
AGOR	51	Tractor and Landscape Equipment Operations	3.0	
AGOR	52	Hydraulics	3.0	CSU
AGOR	53	Small Engine Repair I	3.0	CSU
AGOR	55	Diesel Engine Repair	3.0	CSU
AGOR	56	Engine Diagnostics	3.0	CSU
AGOR	71	Landscape Construction Fundamentals	3.0	CSU
AGOR	72	Landscape Hardscape Applications	3.0	CSU
BUSM	66	Small Business Management	3.0	

Total Units 34.0 - 37.0

Escrow Management

BUSINESS ADMINISTRATION DEPARTMENT

Major 20511

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

Requirements for the Major

Required courses:

BUSA	7	Principles of Accounting - Financial, or	5.0	CSU,UC
BUSA	72	Bookkeeping - Accounting	5.0	
BUSM	20	Principles of Business	3.0	CSU,UC
BUSM	60	Human Relations in Business	3.0	CSU
BUSM	66	Small Business Management	3.0	
BUSO	1	Computer Keyboarding	4.0	CSU
BUSO	25	Business Communications	3.0	CSU
BUSR	50	Real Estate Principles	3.0	CSU
BUSR	51	Legal Aspects of Real Estate	3.0	
BUSR	53	Real Estate Finance	3.0	
BUSR	76	Escrow Procedures I	3.0	
BUSR	77	Escrow Procedures II	3.0	
COMP	16	Microcomputer Applications	3.5	CSU,UC
Total Units			39.5	

Recommended Electives:

BUSA	8	Principles of Accounting - Managerial
BUSL	18	Business Law, or
BUSL	18H	Business Law - Honors
BUSM	62	Human Resource Management
BUSO	5	Business English
BUSR	52	Real Estate Practice, or
BUSR	52D	Real Estate Practice Work Experience
BUSR	57	Income Tax Aspects of Real Estate Investments
PSYC	1A	General Psychology

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

Family And Consumer Sciences

FAMILY AND CONSUMER SCIENCES DEPARTMENT

Major 21309

This program provides students with the basic skills associated with the field of family and consumer sciences, which includes the needs of the home, the family, and its individual members. Students wishing a Bachelor's Degree (transfer program) should consult with an educational advisor to discuss transferability of courses.

Requirements for the Major

Required courses:

CHLD	10	Child Growth and Development, or	3.0	CSU,UC
CHLD	10H	Child Growth and Development - Honors	3.0	CSU,UC
FASH	10	Clothing Fundamentals	3.0	CSU
FASH	15	Fashion Strategies	3.0	CSU
FASH	17	Textiles	3.0	CSU,UC
FCS	41	Life Management	3.0	CSU
FCS	80	Money Management	3.0	CSU
ID	100	Fundamentals of Interior Design	3.0	CSU
NF	20	Principles of Foods With Lab, or	3.0	CSU
NF	62	Meal Management	3.0	CSU
NF	25	Essentials of Nutrition, or	3.0	CSU,UC
NF	25H	Essentials of Nutrition - Honors	3.0	CSU,UC
NF	28	Cultural and Ethnic Foods	3.0	CSU,UC

Total Units 30.0

Recommended Electives:

CHLD	1	Child, Family and Community
FASH	12	Advanced Clothing
ID	105	Interior Design Studio I
ID	130	Applied Color and Design Theory

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

Fashion Design

FAMILY AND CONSUMER SCIENCES DEPARTMENT

Major 21320

Exciting employment opportunities are available in both fashion design and costume design. In Southern California, the apparel industry and the entertainment industry support the largest number of employees and contribute significantly to the economy of the region. Expand your creative talents with this challenging major and find a career of your dreams. Students desiring a Bachelor's Degree should consult with an advisor and the transfer institution.

Requirements for the Major

Required courses:

FASH	10	Clothing Fundamentals	3.0	CSU
FASH	12	Advanced Clothing	3.0	CSU
FASH	15	Fashion Strategies	3.0	CSU
FASH	17	Textiles	3.0	CSU,UC
FASH	20	Illustration for Fashion and Costume Design	3.0	
FASH	21	Basic Patternmaking	3.0	CSU
FASH	22	Fashion Design by Draping	3.0	
FASH	23	Patternmaking II	3.0	
FASH	30	Fashion Design and Product Development I	3.0	
FASH	31	Fashion Design and Product Development II	3.0	
FASH	32	Fashion Design and Product Development III	3.0	
FASH	60	Introduction to Fashion	3.0	CSU
FASH	61	History of Costume and Fashion	3.0	CSU
FASH	95	Field Studies in Fashion Merchandising-California	1.0	
Total Units			40.0	

Recommended Electives:

ARTD	17A	Drawing: Life
BUSM	66	Small Business Management
DRMA	19	Theatrical Costuming
FASH	90	Field Studies
FASH	91	Field Studies - New York
FASH	92	Field Studies - Fashion Capitals
FCS	41	Life Management

FASH 20, FASH 23, FASH 90, FASH 91, and FASH 95 may be taken two times for credit.

Fashion Merchandising

FAMILY AND CONSUMER SCIENCES DEPARTMENT

Major 21308

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 an advisor to discuss transferability of courses.

Requirements for the Major

Required courses:

BUSS	36	Principles of Marketing	3.0	CSU
COMP	16	Microcomputer Applications	3.5	CSU,UC
FASH	10	Clothing Fundamentals	3.0	CSU
FASH	15	Fashion Strategies	3.0	CSU
FASH	17	Textiles	3.0	CSU,UC
FASH	30	Fashion Design and Product Development I	3.0	
FASH	60	Introduction to Fashion	3.0	CSU
FASH	61	History of Costume and Fashion	3.0	CSU
FASH	62	Retail Store Management and Merchandising, or	3.0	CSU
BUSS	50	Retail Store Management and Merchandising	3.0	
FASH	63	Advertising and Promotion, or	3.0	CSU
BUSS	33	Advertising and Promotion	3.0	
FASH	66	Visual Merchandising Display	3.0	CSU
FASH	95	Field Studies in Fashion Merchandising-California	1.0	
FCS	41	Life Management	3.0	CSU
			Total Units	37.5

Recommended Electives:

COMP	11	Internet Research for Business
FASH	90	Field Studies
FASH	91	Field Studies - New York
FASH	92	Field Studies - Fashion Capitals
FCS	91	Work Experience in Family and Consumer Sciences
FCS	92	Work Experience in Family and Consumer Sciences

The Fashion Merchandising faculty recommends that you complement your studies with selected elective courses chosen from the list above. You should meet with a professor of Fashion Merchandising to help determine which of those electives best suit your career objectives.

Fire Technology

FIRE TECHNOLOGY DEPARTMENT

Major 22105

The Fire Science major has been developed to offer pre-employment education of 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 an advisor to discuss transferability of courses.

Requirements for the Major

Required courses:

FIRE	1	Fire Protection Organization	3.0	CSU
FIRE	2	Fire Prevention Technology	3.0	CSU
FIRE	3	Fire Protection Equipment and Systems	3.0	CSU
FIRE	4	Building Construction for Fire Protection	3.0	CSU
FIRE	5	Fire Behavior and Combustion	3.0	CSU
FIRE	6	Hazardous Materials/lcs	3.0	

PLUS

Select two (2) courses from:

EMT	90	Emergency Medical Technician I	9.0	
FIRE	7	Fire Fighting Tactics and Strategy	3.0	CSU
FIRE	8	Fire Company Organization and Management	3.0	CSU
FIRE	9	Fire Hydraulics	3.0	CSU
FIRE	10	Arson and Fire Investigation	3.0	CSU
FIRE	11	Fire Apparatus and Equipment	3.0	CSU
FIRE	12	Wildland Fire Control	4.0	CSU
FIRE	86	Basic Fire Academy	12.0	

Total Units 24.0 - 39.0

Recommended Electives:

FIRE	20	Fire Instructor 1a		
FIRE	21	Fire Instructor 1b		
FIRE	30	Fire Management 1		
FIRE	40	Fire Prevention 1a		
FIRE	41	Fire Prevention 1b		
FIRE	50	Fire Command 1a		
FIRE	51	Fire Command 1b		
FIRE	60	Fire Investigation 1a		
FIRE	61	Fire Investigation 1b		
PE-F	50	Physical Skills Preparation for Law Enforcement and Fire Science, or		
PE-F	51	Agility Testing Preparation for Law Enforcement and Fire Science, or		
PE-F	52	Fitness and Conditioning for Law Enforcement, Fire Science and Forestry		
SPAN	66	Spanish for Fire and Police Personnel		

Fire Technology - Administration

FIRE TECHNOLOGY DEPARTMENT

Major 22106

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 an advisor to discuss transferability of courses.

Requirements for the Major

Required courses:

BUSA	7	Principles of Accounting - Financial	5.0	CSU,UC
CIS	10A	Computer Information Systems	3.5	CSU,UC
CIS	28	Basic Programming	4.0	CSU,UC
FIRE	1	Fire Protection Organization	3.0	CSU
FIRE	8	Fire Company Organization and Management	3.0	CSU
FIRE	30	Fire Management 1	2.0	

Total Units 20.5

Recommended Electives:

FIRE	2	Fire Prevention Technology
FIRE	40	Fire Prevention 1a
FIRE	41	Fire Prevention 1b
SPAN	66	Spanish for Fire and Police Personnel

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

Fire Technology - Administrative Communications

FIRE TECHNOLOGY DEPARTMENT

Major 22107

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 an advisor to discuss transferability of courses.

Requirements for the Major

Required courses:

BUSA	7	Principles of Accounting - Financial	5.0	CSU,UC
CIS	10A	Computer Information Systems	3.5	CSU,UC
FIRE	1	Fire Protection Organization	3.0	CSU
FIRE	8	Fire Company Organization and Management	3.0	CSU
FIRE	20	Fire Instructor 1a	2.0	
FIRE	21	Fire Instructor 1b	2.0	
FIRE	65	Public Education 1a	2.0	

Total Units 20.5

Recommended Electives:

FIRE	2	Fire Prevention Technology
FIRE	30	Fire Management 1
FIRE	40	Fire Prevention 1a
FIRE	41	Fire Prevention 1b
SPAN	66	Spanish for Fire and Police Personnel

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

Fire Technology - Administrative Law

FIRE TECHNOLOGY DEPARTMENT

Major 22108

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 an advisor to discuss transferability of courses.

Requirements for the Major

Required courses:

BUSA	7	Principles of Accounting - Financial	5.0	CSU,UC
CIS	10A	Computer Information Systems	3.5	CSU,UC
FIRE	1	Fire Protection Organization	3.0	CSU
FIRE	2	Fire Prevention Technology	3.0	CSU
FIRE	8	Fire Company Organization and Management	3.0	CSU
FIRE	40	Fire Prevention 1a	2.0	
FIRE	41	Fire Prevention 1b	2.0	

Total Units 21.5

Fire Technology - Fire Management

FIRE TECHNOLOGY DEPARTMENT

Major 22109

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 an advisor to discuss transferability of courses.

Requirements for the Major

Required courses:

FIRE	1	Fire Protection Organization	3.0	CSU
FIRE	2	Fire Prevention Technology	3.0	CSU
FIRE	3	Fire Protection Equipment and Systems	3.0	CSU
FIRE	4	Building Construction for Fire Protection	3.0	CSU
FIRE	5	Fire Behavior and Combustion	3.0	CSU
FIRE	6	Hazardous Materials/lcs	3.0	

Plus the following courses:

FIRE	7	Fire Fighting Tactics and Strategy	3.0	CSU
FIRE	8	Fire Company Organization and Management	3.0	CSU
FIRE	10	Arson and Fire Investigation	3.0	CSU
FIRE	20	Fire Instructor 1a	2.0	
FIRE	21	Fire Instructor 1b	2.0	
FIRE	30	Fire Management 1	2.0	
FIRE	50	Fire Command 1a	2.0	

Total Units 35.0

Recommended Electives:

EMT	90	Emergency Medical Technician I		
FIRE	40	Fire Prevention 1a		
FIRE	41	Fire Prevention 1b		
FIRE	51	Fire Command 1b		
FIRE	60	Fire Investigation 1a		
FIRE	61	Fire Investigation 1b		
PE-F	50	Physical Skills Preparation for Law Enforcement and Fire Science		
PE-F	51	Agility Testing Preparation for Law Enforcement and Fire Science		
PE-F	52	Fitness and Conditioning for Law Enforcement, Fire Science and Forestry		
SPAN	66	Spanish for Fire and Police Personnel		

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

Fire Technology - Fire Prevention

FIRE TECHNOLOGY DEPARTMENT

Major 22110

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 an advisor to discuss transferability of courses.

Requirements for the Major

Required courses:

FIRE	1	Fire Protection Organization	3.0	CSU
FIRE	2	Fire Prevention Technology	3.0	CSU
FIRE	3	Fire Protection Equipment and Systems	3.0	CSU
FIRE	4	Building Construction for Fire Protection	3.0	CSU
FIRE	5	Fire Behavior and Combustion	3.0	CSU
FIRE	6	Hazardous Materials/lcs	3.0	
FIRE	10	Arson and Fire Investigation	3.0	CSU
FIRE	40	Fire Prevention 1a	2.0	
FIRE	41	Fire Prevention 1b	2.0	
FIRE	42	Fire Prevention 1c	2.0	
FIRE	43	Fire Prevention 2a	2.0	
FIRE	44	Fire Prevention 2b	2.0	
FIRE	45	Fire Prevention 2c	2.0	
FIRE	68	Title 19/24 Workshop	1.0	

Total Units 34.0

Recommended Electives:

EMT	90	Emergency Medical Technician I
PE-F	50	Physical Skills Preparation for Law Enforcement and Fire Science
PE-F	51	Agility Testing Preparation for Law Enforcement and Fire Science
PE-F	52	Fitness and Conditioning for Law Enforcement, Fire Science and Forestry
SPAN	66	Spanish for Fire and Police Personnel

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

Fire Technology - Fire Training

FIRE TECHNOLOGY DEPARTMENT

Major 22111

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 an advisor to discuss transferability of courses.

Requirements for the Major

Required courses:

FIRE	1	Fire Protection Organization	3.0	CSU
FIRE	2	Fire Prevention Technology	3.0	CSU
FIRE	3	Fire Protection Equipment and Systems	3.0	CSU
FIRE	4	Building Construction for Fire Protection	3.0	CSU
FIRE	5	Fire Behavior and Combustion	3.0	CSU
FIRE	6	Hazardous Materials/lcs	3.0	
FIRE	7	Fire Fighting Tactics and Strategy	3.0	CSU
FIRE	20	Fire Instructor 1a	2.0	
FIRE	21	Fire Instructor 1b	2.0	
FIRE	22	Fire Instructor 2a	2.0	
FIRE	23	Fire Instructor 2b	2.0	
FIRE	24	Fire Instructor 2c	2.0	
FIRE	30	Fire Management 1	2.0	

Total Units 33.0

Recommended Electives:

EMT	90	Emergency Medical Technician I
FIRE	8	Fire Company Organization and Management
FIRE	40	Fire Prevention 1a
FIRE	41	Fire Prevention 1b
FIRE	50	Fire Command 1a
FIRE	51	Fire Command 1b
PE-F	50	Physical Skills Preparation for Law Enforcement and Fire Science
PE-F	51	Agility Testing Preparation for Law Enforcement and Fire Science
PE-F	52	Fitness and Conditioning for Law Enforcement, Fire Science and Forestry
SPAN	66	Spanish for Fire and Police Personnel

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

Fire Technology - Private Fire Service

FIRE TECHNOLOGY DEPARTMENT

Major 22112

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 an advisor to discuss transferability of courses.

Requirements for the Major

Required courses:

FIRE	1	Fire Protection Organization	3.0	CSU
FIRE	2	Fire Prevention Technology	3.0	CSU
FIRE	3	Fire Protection Equipment and Systems	3.0	CSU
FIRE	4	Building Construction for Fire Protection	3.0	CSU
FIRE	5	Fire Behavior and Combustion	3.0	CSU
FIRE	6	Hazardous Materials/lcs	3.0	
FIRE	8	Fire Company Organization and Management	3.0	CSU
FIRE	11	Fire Apparatus and Equipment	3.0	CSU
FIRE	40	Fire Prevention 1a	2.0	
FIRE	41	Fire Prevention 1b	2.0	
FIRE	42	Fire Prevention 1c	2.0	
			Total Units	30.0

Recommended Electives:

EMT	90	Emergency Medical Technician I
FIRE	10	Arson and Fire Investigation
FIRE	30	Fire Management 1
FIRE	60	Fire Investigation 1a
FIRE	61	Fire Investigation 1b
PE-F	50	Physical Skills Preparation for Law Enforcement and Fire Science
PE-F	51	Agility Testing Preparation for Law Enforcement and Fire Science
PE-F	52	Fitness and Conditioning for Law Enforcement, Fire Science and Forestry
SPAN	66	Spanish for Fire and Police Personnel

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

Flight Attendant

AERONAUTICS AND TRANSPORTATION DEPARTMENT

Major 23002

The Flight Attendant program provides the student with an excellent background for a career as a flight attendant and many of the typical entry-level positions in the air transportation industry. Students planning to enroll in the Flight Attendant program should be aware of the importance of proper sequencing of courses. Students are advised to consult with the Aeronautics Department or an Advisor for assistance in scheduling.

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

Requirements for the Major

Required courses:

PE	5	Advanced First Aid/CPR/Emergency Response	3.0	CSU
SPCH	52	Speech	3.0	
TRVL	1	Airline Resources and Ticketing	1.5	
TRVL	2	Automated PNR Construction	1.5	
TRVL	11	World Travel Destinations	3.0	
TRVL	12	Area Studies of North American Travel	3.0	
TRVL	13	Area Studies of European Travel	3.0	
TRVL	14	Area Studies of Pacific Travel	3.0	
TRVL	15	Area Studies of Caribbean & Latin American Travel	3.0	
TRVL	16	Tourism	3.0	
TRVL	22	Flight Attendant	3.0	
Total Units			30.0	

SPECIAL INFORMATION:

Airlines hiring flight attendants are interested in hiring well educated men and women who demonstrate strong social skills, including excellent communication abilities and related professional traits. The skills required of flight attendants are very similar to those in other travel fields and in similar service industries. Airlines are particularly concerned with the proven ability to accomplish educational tasks, since further training will be required by the specific airline once an individual is hired.

Floral Design

AGRICULTURAL SCIENCES DEPARTMENT

Major 20113

The program of courses in Agriculture is designed to enable students to prepare for a career in this essential and diverse profession. The Department offers a comprehensive Agricultural Sciences Program and is unique in that most courses provide hands-on experience designed to give the student a combination of practical skills and technical knowledge. Students who intend to transfer should check the lower division requirements in the catalog of the college or university which they will attend and also the semester and year in which courses are offered.

The following programs list all courses needed to satisfy major requirements. Students may obtain certificates upon completion of required courses listed. It is recommended that all students consult with the department chairperson or faculty advisor to file an educational plan.

These programs are intended to prepare students for employment following graduation. Students desiring a Bachelor's Degree (transfer program) should consult with the department chairperson or faculty advisor to file an educational plan and 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:

AGAG	1	Food Production, Land Use and Politics - A Global Perspective	3.0	CSU,UC
AGAG	91	Agricultural Calculations	3.0	
AGOR	1	Horticultural Science	3.0	CSU
AGOR	2	Plant Propagation/Greenhouse Management	3.0	CSU
AGOR	13	Landscape Design	3.0	CSU
AGOR	15	Interior Landscaping	3.0	
AGOR	25	Floral Design I	3.0	CSU
AGOR	26	Floral Design II	3.0	CSU
AGOR	27	Floral Design III	3.0	
AGOR	29	Ornamental Plants - Herbaceous	3.0	CSU,UC
AGOR	30	Ornamental Plants - Trees and Woody Shrubs	3.0	CSU,UC
AGOR	32	Landscaping and Nursery Management	3.0	CSU
AGOR	91	Work Experience in Nursery Operations, or	1.0	
AGOR	92	Work Experience in Nursery Operations, or	2.0	
AGOR	93	Work Experience in Nursery Operations, or	3.0	
AGOR	94	Work Experience in Nursery Operations	4.0	
BUSM	66	Small Business Management	3.0	

Total Units 40.0 - 43.0

General Business

ACCOUNTING AND MANAGEMENT DEPARTMENT

Major 20501

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

Requirements for the Major

Required courses:

BUSA	7	Principles of Accounting - Financial, or	5.0	CSU,UC
BUSA	72	Bookkeeping - Accounting	5.0	
BUSL	18	Business Law, or	3.0	CSU,UC
BUSL	18H	Business Law - Honors	3.0	CSU
BUSM	10	Principles of Continuous Quality Improvement	3.0	
BUSM	20	Principles of Business	3.0	CSU,UC
BUSM	60	Human Relations in Business	3.0	CSU
BUSM	61	Business Organization and Management	3.0	CSU
BUSM	62	Human Resource Management	3.0	
BUSO	5	Business English	3.0	
BUSO	25	Business Communications	3.0	CSU
BUSS	36	Principles of Marketing	3.0	CSU
COMP	16	Microcomputer Applications	3.5	CSU,UC

PLUS

Select six (6) units from:

BUSA	BUSINESS: ACCOUNTING	1.0-5.0	CSU,UC
BUSC	BUSINESS: ECONOMICS	3.0	CSU,UC
BUSL	BUSINESS: LAW	1.0-3.0	CSU,UC
BUSM	BUSINESS: MANAGEMENT	1.0-4.0	CSU,UC
BUSS	BUSINESS: SALES, MERCHANDISING AND MARKETING	1.0-4.0	CSU
CIS	COMPUTER INFORMATION SYSTEMS	0.0-4.0	CSU,UC
COMP	COMPUTER APPLICATIONS	0.5-4.0	CSU

Total Units 41.5

Histologic Technician Training

BIOLOGICAL SCIENCES DEPARTMENT

Major 21211

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 hybridization. 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, or	4.0	CSU,UC
ANAT	36	Human Physiology	5.0	CSU,UC
ANAT	35	Human Anatomy	5.0	CSU,UC
CHEM	2A	Fundamentals of Chemistry, or	4.0	CSU,UC
CHEM	1A	General Chemistry	5.0	CSU,UC
HT	1	Introduction to Histotechnology	1.0	
HT	2	Scientific Basics for Histologic Technicians	3.0	
HT	10	Histology	3.0	
HT	12	Beginning Histotechniques	4.0	
HT	14	Advanced Histotechniques	4.0	
HT	16	Histochemistry/Immunohistochemistry	4.0	
MICR	22	Microbiology, or	4.0	CSU,UC
MICR	1	Principles of Microbiology	5.0	CSU,UC

PLUS

Select four (4) units from:

HT	17	Work Experience in Histotechnology	1.0
HT	18	Work Experience in Histotechnology	2.0
HT	19	Work Experience in Histotechnology	3.0
HT	20	Work Experience in Histotechnology	4.0

Total Units 40.0 - 43.0

Horse Ranch Management

AGRICULTURAL SCIENCES DEPARTMENT

Major 20102

The program of courses in Agriculture is designed to enable students to prepare for a career in this essential and diverse profession. The Department offers a comprehensive Agricultural Sciences Program and is unique in that most courses provide hands-on experience designed to give the student a combination of practical skills and technical knowledge. Students who intend to transfer should check the lower division requirements in the catalog of the college or university which they will attend and also the semester and year in which courses are offered.

The following programs list all courses needed to satisfy major requirements. Students may obtain certificates upon completion of required courses listed. It is recommended that all students consult with the department chairperson or faculty advisor to file an educational plan.

These programs are intended to prepare students for employment following graduation. Students desiring a Bachelor's Degree (transfer program) should consult with the department chairperson or faculty advisor to file an educational plan and to discuss transferability of courses. The curriculum is flexible in nature to allow for previous experience and specialization in a given area of agriculture and agricultural business.

Requirements for the Major

Required courses:

AGAB	20	Microcomputer Applications in Agriculture	3.0	CSU,UC
AGAG	59	Work Experience in Agriculture, or	1.0	
AGAG	60	Work Experience in Agriculture, or	2.0	
AGAG	61	Work Experience in Agriculture, or	3.0	
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 and Disease Control	3.0	CSU
AGLI	97	Artificial Insemination of Livestock	2.0	

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 Fundamentals	3.0	CSU
BUSM	20	Principles of Business	3.0	CSU,UC
BUSM	66	Small Business Management	3.0	

Total Units 33.0 - 36.0

Horticulture Science

AGRICULTURAL SCIENCES DEPARTMENT

Major 20119

The program of courses in Agriculture is designed to enable students to prepare for a career in this essential and diverse profession. The Department offers a comprehensive Agricultural Sciences Program and is unique in that most courses provide hands-on experience designed to give the student a combination of practical skills and technical knowledge. Students who intend to transfer should check the lower division requirements in the catalog of the college or university which they will attend and also the semester and year in which courses are offered.

The following programs list all courses needed to satisfy major requirements. Students may obtain certificates upon completion of required courses listed. It is recommended that all students consult with the department chairperson or faculty advisor to file an educational plan.

These programs are intended to prepare students for employment following graduation. Students desiring a Bachelor's Degree (transfer program) should consult with the department chairperson or faculty advisor to file an educational plan and 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:

AGAG	1	Food Production, Land Use and Politics - A Global Perspective	3.0	CSU,UC
AGAG	91	Agricultural Calculations	3.0	
AGOR	1	Horticultural Science	3.0	CSU
AGOR	2	Plant Propagation/Greenhouse Management	3.0	CSU
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 - Trees and Woody Shrubs	3.0	CSU,UC
AGOR	32	Landscaping and Nursery Management	3.0	CSU
AGOR	39	Turf Grass Production and Management	3.0	CSU
AGOR	50	Soil Science and Management	3.0	CSU,UC
AGOR	62	Landscape Irrigation - Design and Installation	3.0	CSU
AGOR	71	Landscape Construction Fundamentals	3.0	CSU
AGOR	91	Work Experience in Nursery Operations, or	1.0	
AGOR	92	Work Experience in Nursery Operations, or	2.0	
AGOR	93	Work Experience in Nursery Operations, or	3.0	
AGOR	94	Work Experience in Nursery Operations	4.0	

PLUS

Select six (6) units from:

AGAB	20	Microcomputer Applications in Agriculture	3.0	CSU,UC
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 Equipment Operations	3.0	
AGOR	53	Small Engine Repair I	3.0	CSU
AGOR	63	Landscape Irrigation Systems Management	3.0	
AGOR	72	Landscape Hardscape Applications	3.0	CSU
AGOR	75	Urban Arboriculture	3.0	

Total Units 46.0 - 49.0

Human Resource Management

ACCOUNTING AND MANAGEMENT DEPARTMENT

Major 20530

The Human Resource Major and Certificate is intended to prepare students to enter the business world in the dynamic environment of human resources. Students become familiar with various approaches to business organization and the strategic nature of human resource management. Studies in human resource law, compensation systems, training, and development will provide the student a solid foundation from which to build a career in human resource management. Transfer students will gain a strong human resource management business elective base initiating further study in a variety of fields. Students active in the work arena will acquire new skills that are highly desirable in a fast-paced work force.

Requirements for the Major

Required courses:

ANTH	22	General Cultural Anthropology	3.0	CSU,UC
BUSA	70	Payroll and Tax Accounting	3.0	
BUSL	19	Advanced Business Law	3.0	CSU,UC
BUSM	20	Principles of Business	3.0	CSU,UC
BUSM	60	Human Relations in Business	3.0	CSU
BUSM	61	Business Organization and Management	3.0	CSU
BUSM	62	Human Resource Management	3.0	
BUSO	25	Business Communications	3.0	CSU
COMP	16	Microcomputer Applications	3.5	CSU,UC

Total Units 27.5

Interior Design

FAMILY AND CONSUMER SCIENCES DEPARTMENT

Major 21301

The program is available as a Certificate (Interiors Merchandising), as an A.S. Degree Interior Design Assistant), and/or when combined with a Bachelor's Degree qualifies student for Professional Designation in Interior Design (Professional Interior Designer) (see below). Students desiring a Bachelor's Degree (transfer program) should consult with an advisor to discuss transferability of courses.

The Interior Design program works within a Regional Interior Design Program of nearby community colleges. Many of the required courses may also be offered at the following community colleges and will meet the requirements of the Mt.SAC program: Fullerton, Long Beach City, Orange Coast, and Saddleback. Regional course numbers all have an ID (Interior Design) prefix. Some Mt. San Antonio College courses are offered by other departments and are identified by Mt. San Antonio College prefixes and numbers. These courses have the regional ID course number in parenthesis following their course title.

Requirements for the Major

Required courses:

ARCH	11	Architectural Drawing	3.0	CSU,UC
ARCH	13	Architectural Illustration	3.0	CSU,UC
ARCH	15	Architectural Working Drawings - I	3.0	CSU
ARCH	16	Basic CAD and Computer Application	4.0	CSU,UC
BUSS	35	Professional Selling	3.0	CSU
ID	100	Fundamentals of Interior Design	3.0	CSU
ID	105	Interior Design Studio I	2.0	CSU
ID	120	Interior Design Careers	2.0	CSU
ID	130	Applied Color and Design Theory	4.0	CSU
ID	150	Interior Materials and Products	4.0	CSU
ID	170	Space Planning	3.0	CSU
ID	180	History of Interior Architecture & Furnishings I	3.0	CSU
ID	190	History of Interior Architecture & Furnishings II	3.0	CSU
ID	210	Fundamentals of Lighting	3.0	
ID	215	Interior Design Studio II	2.0	CSU
ID	230	Business and Professional Practice	3.0	
ID	240A	Interior Design Internship Seminar, and	1.0	
ID	240B	Interior Design Internship	1.0	
			Total Units	50.0

Recommended Electives:

ARCH	23	Architectural Presentations
ARTD	15A	Drawing: Beginning
BUSA	72	Bookkeeping - Accounting
FCS	41	Life Management

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

Interior Design - Kitchen And Bath Design

FAMILY AND CONSUMER SCIENCES DEPARTMENT

Major 21302

This program provides for immediate opportunity to seek employment in the area of kitchen and bath design. The program is available as an Associate in Science Degree or a Certificate. Both the major and certificate are endorsed by the National Kitchen and Bath Association. Students completing all courses for this program will earn four (4) NKBA credits toward eligibility for professional certification as a Certified Kitchen Designer or Certified Bath Designer. Please see a professor of Interior Design or contact the NKBA for professional certification eligibility requirements beyond this program.

Requirements for the Major

Required courses:

ARCH	11	Architectural Drawing	3.0	CSU,UC
ARCH	15	Architectural Working Drawings - I	3.0	CSU
ARCH	16	Basic CAD and Computer Application	4.0	CSU,UC
ID	100	Fundamentals of Interior Design	3.0	CSU
ID	105	Interior Design Studio I	2.0	CSU
ID	130	Applied Color and Design Theory	4.0	CSU
ID	150	Interior Materials and Products	4.0	CSU
ID	170	Space Planning	3.0	CSU
ID	180	History of Interior Architecture & Furnishings I	3.0	CSU
ID	190	History of Interior Architecture & Furnishings II	3.0	CSU
ID	210	Fundamentals of Lighting	3.0	
ID	215	Interior Design Studio II	2.0	CSU
ID	230	Business and Professional Practice	3.0	
ID	240A	Interior Design Internship Seminar	1.0	
ID	240B	Interior Design Internship	1.0	
ID	240C	Interior Design/Kitchen & Bath Internship	2.0	
ID	250	Codes and Specifications for Interior Design	2.0	CSU
ID	265	Interior Design Studio III - Kitchens	2.0	
ID	275	Interior Design Studio IV - Bath Design	2.0	CSU
INSP	70	Elements of Construction	3.0	CSU
INSP	71	Construction Estimating	3.0	CSU
			Total Units	56.0

Recommended Electives:

ARCH	13	Architectural Illustration
ARCH	23	Architectural Presentations
BUSA	72	Bookkeeping - Accounting
BUSM	60	Human Relations in Business
BUSM	66	Small Business Management
BUSS	35	Professional Selling
BUSS	50	Retail Store Management and Merchandising

The Interior Design faculty recommend that you complement your studies with selected elective courses chosen from the list above. You should meet with a professor of Interior Design-Kitchen and Bath Design to help you determine which of those electives would best suit your career plans.

International Business

ACCOUNTING AND MANAGEMENT DEPARTMENT

Major 20507

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

Requirements for the Major

Required courses:

BUSL	20	International Business Law	3.0	
BUSM	20	Principles of Business	3.0	CSU,UC
BUSM	50	World Culture: A Business Perspective, or	3.0	
ANTH	22	General Cultural Anthropology	3.0	CSU,UC
BUSM	51	Principles of International Business	3.0	
BUSM	52	Principles of Exporting and Importing	3.0	
BUSM	61	Business Organization and Management	3.0	CSU
BUSM	66	Small Business Management	3.0	
BUSS	36	Principles of Marketing	3.0	CSU

PLUS

Select one (1) course from:

BUSS	70	International Marketing Concepts	3.0	
CHIN	1	Beginning Chinese	4.0	CSU,UC
FRCH	1	Elementary French	4.0	CSU,UC
GERM	1	Elementary German	4.0	CSU,UC
ITAL	1	Elementary Italian	4.0	CSU,UC
JAPN	1	Elementary Japanese	4.0	CSU,UC
SPAN	1	Elementary Spanish	4.0	CSU,UC

Total Units 27.0 - 28.0

Recommended Electives:

BUSM	81	Work Experience in Business
BUSM	82	Work Experience in Business
BUSM	83	Work Experience in Business
BUSM	84	Work Experience in Business
BUSM	85	Special Issues in Business
BUSS	85	Special Issues in Marketing

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

Law Enforcement

PUBLIC SERVICES DEPARTMENT

Major 22102

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

Requirements for the Major

Required courses:

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

PLUS

Select four (4) courses from:

ADJU	6	Concepts of Enforcement Services	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	Street Gangs and Law Enforcement	3.0	
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

Recommended Electives:

PE-F	50	Physical Skills Preparation for Law Enforcement and Fire Science
PE-F	51	Agility Testing Preparation for Law Enforcement and Fire Science
PE-F	52	Fitness and Conditioning for Law Enforcement, Fire Science and Forestry
SPAN	66	Spanish for Fire and Police Personnel

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

Licensed Psychiatric Technician To RN

NURSING DEPARTMENT

Major 21209

The Mt. San Antonio College Nursing Program, approved by the California Board of Registered Nursing, is a two-year program designed to prepare individuals at the Associate Degree level for entry into the practice of registered nursing. The goal of associate degree nursing education is to prepare registered nurses to provide direct client care. Graduates of the program receive an Associate in Science Degree in Nursing and are eligible to take the examination leading to licensure as a Registered Nurse.

The Licensed Psychiatric Technician is eligible to pursue advanced placement into the degree track earning an Associate in Science Degree in Nursing upon program completion.

Requirements for the Major

Required courses:

In addition to the admission requirements on the next page.

NURS	3	Medical-Surgical Nursing: Locomotion/Sensation/ Integument/Oncology/Immunology	3.5	CSU
NURS	4	Maternity Nursing	3.0	CSU
NURS	6	Pediatric Nursing	3.0	CSU
NURS	7	Medical-Surgical Nursing: Nutrition/Elimination/ Surgical Asepsis	7.0	CSU
NURS	8	Medical-Surgical Nursing: Circulation and Oxygenation	5.0	CSU
NURS	9	Leadership in Nursing	1.0	CSU
NURS	10	Medical-Surgical Nursing: Integration/Regulation	4.0	CSU
NURS	11	Preceptorship in Nursing	2.0	CSU
SPCH	1A	Public Speaking, or	3.0	CSU,UC
SPCH	1AH	Public Speaking - Honors	3.0	CSU,UC
Total Units			31.5	

*Special Information

To remain in the program, students must maintain a grade of "C" (75%) in all nursing courses.

The Associate in Science Degree in Nursing will be awarded upon the completion of the graduation requirements of the College. (Refer to Section 7 of the Catalog.) In addition, completion of the requirements qualifies the student to take the National Council Licensure Examination for Registered Nurses (NCLEX-RN).

Courses required for the nursing program may be challenged. Refer to the credit granting and transfer policies available in the Nursing Office.

*Admission Requirements, Applications, and Selection Procedures

Admission Requirements

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

- a. High school graduation or G.E.D. or academic degree from an accredited college/university in the United States.
- b. Possess a California Psychiatric Technician License.
- c. File a college application and be accepted as a student at Mt. San Antonio College.
- d. Complete the following prerequisite courses with a minimum grade of "C" in each course. Prerequisite courses must have a minimum over all G.P.A. of 2.5:

*ANAT 35 Human Anatomy, or equivalent and
 *ANAT 36 Human Physiology, or equivalent or
 *ANAT 10A Introductory Human Anatomy, or equivalent and
 *ANAT 10B Introductory Human Physiology, or equivalent and
 MICR 22 Microbiology, or equivalent or
 MICR 1 Principles of Microbiology, or equivalent and
 NF 25 Essentials of Nutrition, or
 NF 25H Essentials of Nutrition - Honors, or equivalent and
 ENGL 1A Freshman Composition, or
 ENGL 1AH Freshman Composition - Honors, or equivalent and
 CHLD 10 Growth and Development, or equivalent, or
 CHLD 10H Growth and Development - Honors, or equivalent and
 PSYC 1A General Psychology, or equivalent and
 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 provide proof of
 physical, CPR card, and malpractice insurance coverage prior to the
 start of class.

***NOTE:** Applicants planning to continue their education and enter a baccalaureate program in nursing will need to complete ANAT 35 and ANAT 36. Science courses cannot be older than five (5) years at time of application to the program. Exams to validate proficiency in the event of outdated science courses are available. Contact the Nursing Office for additional information.

e. Provide evidence of eligibility for MATH 51 by:

1. Successfully having completed MATH 50 or equivalent coursework OR
2. Complete the Algebra Readiness Exam with a score which will qualify for MATH 51.

Contact the Assessment Center, (Student Services Center, Ext. 4265) to obtain information and schedule an appointment to take this exam. Scores are valid for two years only.

f. Review and complete an educational plan with an advisor located in the Student Services Center, upper level. No appointment is necessary. If you have attended other colleges, you must provide copies of transcripts to the office of School and College Relations for a complete evaluation. This educational plan should be part of the applicant's portfolio at the time of application.

Application Procedures

- a. Applicants are responsible for preparing a portfolio which includes:
 1. Sealed official transcripts which verify completion of prerequisite courses, including those taken at Mt. SAC (refer to courses listed under Admission Requirements). In order to determine equivalency of coursework from another college, course descriptions and syllabus or topical outline of the course must accompany the transcript. NOTE: Official transcripts verifying previous coursework, other than MSAC, must also be submitted to the Admissions and Records Office.
 2. Verification of high school graduation or equivalent (official High School Diploma/transcript or G.E.D. or academic degree from an accredited college/university in the United States).
 3. Computer printout verifying eligibility for placement in MATH 51 or equivalent college coursework.
- A copy of the completed Verification Form and a Nursing Program Application will be given to the applicant at the verification appointment. The application will be completed by the applicant and submitted at this appointment.

It is the responsibility of the applicant to provide official documentation of prior coursework, experience, licenses, and certificates. Applicants are evaluated and counseled on an individual basis.

- b. After all admission requirements outlined above have been met, contact the Nursing Office at (909) 594-5611, Ext. 4560, to schedule an appointment to complete the Verification Form and to submit a completed portfolio. This appointment should be scheduled during the last two (2) weeks of NURS 70.

Only complete portfolios will be accepted at the scheduled appointment.

Selection Procedures

Students are selected for placement in the program by level of achievement in prerequisite requirements. The applicant's name is placed on an acceptance list which has been prioritized by date and time of portfolio review. Classes are admitted in fall and spring semesters. Students who are eligible, but not admitted because of space limitations, will retain priority on the accept list for admission.

Applicants who are accepted to the program must attend a mandatory scheduled orientation session. Those who do not attend the orientation, and have not communicated with the Program Director, in advance, will lose their acceptance status. These applicants will need to reapply to the Nursing Program in order to be reconsidered for entry at a later date. Applicants who are accepted will be offered no more than two (2) entry dates without reapplication.

A physical examination, including specific immunizations, a current Level C-Provider CPR certification, and malpractice insurance are required of all candidates prior to the beginning of nursing classes. Specific information will be provided at a scheduled orientation session.

Licensed Vocational Nurse To RN

NURSING DEPARTMENT

Major 21201

The Mt. San Antonio College Nursing Program, approved by the California Board of Registered Nursing, is a two-year program designed to prepare individuals at the Associate Degree level for entry into the practice of registered nursing. The goal of Associate Degree nursing education is to prepare registered nurses to provide direct client care. Graduates of the program receive an Associate in Science Degree in Nursing and are eligible to take the examination leading to licensure as a Registered Nurse.

The Licensed Vocational Nurse may choose between earning an Associate in Science Degree in Nursing or completing the 30-Unit Option track which does not lead to a degree. The Licensed Vocational Nurse is eligible to pursue advanced placement into the degree track earning an Associate in Science Degree in Nursing upon program completion.

Requirements for the Major

Required courses:

In addition to the admission requirements on the next page.

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 Asepsis	7.0	CSU
NURS	8	Medical-Surgical Nursing: Circulation and Oxygenation	5.0	CSU
NURS	9	Leadership in Nursing	1.0	CSU
NURS	10	Medical-Surgical Nursing: Integration/Regulation	4.0	CSU
NURS	11	Preceptorship in Nursing	2.0	CSU
SPCH	1A	Public Speaking, or	3.0	CSU,UC
SPCH	1AH	Public Speaking - Honors	3.0	CSU,UC
Total Units			31.0	

Special Information

To remain in the program, students must maintain a grade of "C" (75%) in all nursing courses.

The Associate in Science Degree in Nursing will be awarded upon the completion of the graduation requirements of the College. (Refer to Section 7 of the Catalog). In addition, completion of the requirements qualifies the student to take the National Council Licensure Examination for Registered Nurses (NCLEX-RN).

Courses required for the Nursing Program may be challenged. Refer to the credit granting and transfer policies available in the Nursing Office.

Admission Requirements, Application, and Selection Procedures

Admission Requirements

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

- a. High school graduation or G.E.D. or academic degree from an accredited college/university in the United States.
- b. Possess a California Licensed Vocational Nurse license.
- c. File a college application and be accepted as a student at Mt. San Antonio College.

- d. Complete the following prerequisite courses with a minimum grade of "C" in each course. Prerequisite courses must have a minimum over all G.P.A. of 2.5:

*ANAT 35 Human Anatomy or equivalent and
 *ANAT 36 Human Physiology, or equivalent or
 *ANAT 10A Introductory Human Anatomy, or equivalent and
 *ANAT 10B Introductory Human Physiology, or equivalent and
 MICR 22 Microbiology, or equivalent or
 MICR 1 Principles of Microbiology, or equivalent and
 NF 25 Essentials of Nutrition, or
 NF 25H Essentials of Nutrition - Honors, or equivalent and
 ENGL 1A Freshman Composition, or
 ENGL 1AH Freshman Composition - Honors, or equivalent and
 CHLD 10 Growth and Development, or equivalent, or
 CHLD 10H Growth and Development - Honors, or equivalent and
 PSYC 1A General Psychology, or equivalent and
 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 provide proof of physical, CPR card and malpractice insurance coverage prior to the start of class.

***NOTE:** Applicants planning to continue their education and enter a baccalaureate program in nursing will need to complete ANAT 35 and ANAT 36. Science courses cannot be older than five (5) years at time of application to the program. Exams to validate proficiency in the event of outdated science courses are available. Contact the Nursing Office for additional information.

- e. Provide evidence of eligibility for MATH 51 by:

1. Successfully having completed MATH 50 or equivalent coursework OR
2. Complete the Algebra Readiness Exam with a score which will qualify for MATH 51.

Contact the Assessment Center, (Student Services Center, Ext. 4265) to obtain information and schedule an appointment to take this exam. Scores are valid for two years only.

- f. Review and complete an educational plan with an advisor located in the Student Service Center, upper level. No appointment is necessary. If you have attended other colleges, you must provide copies of transcripts to the office of School and College Relations for a complete evaluation. This educational plan should be part of the applicant's portfolio at the time of application.

APPLICATION PROCEDURES

- a. Applicants are responsible for preparing a portfolio which includes:

1. Sealed official transcripts which verify completion of prerequisite courses, including those taken at Mt.SAC (refer to courses listed under Admission Requirements). In order to determine equivalency of coursework from another college, course descriptions and syllabus or topical outline of the course must accompany the transcript. NOTE: Official transcripts verifying previous coursework, other than MSAC, must also be submitted to the Admissions and Records Office.
 2. Verification of high school graduation or equivalent (official High School Diploma/transcript or G.E.D. or academic degree from an accredited college/university in the United States).
 3. Computer printout verifying eligibility for placement in MATH 51 or equivalent college coursework.
- A copy of the completed Verification Form and a Nursing Program Application will be given to the applicant at the verification appointment. The application will be completed by the applicant and submitted at this appointment.

It is the responsibility of the applicant to provide official documentation of prior coursework, experience licenses, and certificates. Applicants are evaluated and counseled on an individual basis.

- b. After all admission requirements outlined above have been met, contact the Nursing Office at (909) 594-5611, Ext. 4560, to schedule an appointment to complete the Verification Form and to submit a completed portfolio. This appointment should be scheduled during the last two (2) weeks of NURS 70.

Only complete portfolios will be accepted at the scheduled appointment.

Selection Procedure

Students are selected for placement in the program by level of achievement in prerequisite requirements. The applicant's name is placed on an acceptance list which has been prioritized by date and time of portfolio review. Classes are admitted in fall and spring semesters. Students who are eligible, but not admitted because of space limitations, will retain priority on the accept list for admission.

Applicants who are accepted to the program must attend a mandatory scheduled orientation session. Those who do not attend the orientation and have not communicated with the Program Director, in advance, will lose their acceptance status. These applicants will need to reapply to the Nursing Program in order to be reconsidered for entry at a later date. Applicants who are accepted will be offered no more than two (2) entry dates without reapplication.

A physical examination, including specific immunizations, a current Level C-Provider CPR certification, and malpractice insurance are required of all candidates prior to the beginning of nursing classes. Specific information will be provided at a scheduled orientation session.

Livestock Management

AGRICULTURAL SCIENCES DEPARTMENT

Major 20103

The program of courses in Agriculture is designed to enable students to prepare for a career in this essential and diverse profession. The Department offers a comprehensive Agricultural Sciences Program and is unique in that most courses provide hands-on experience designed to give the student a combination of practical skills and technical knowledge. Students who intend to transfer should check the lower division requirements in the catalog of the college or university which they will attend and also the semester and year in which courses are offered.

The following programs list all courses needed to satisfy major requirements. Students may obtain certificates upon completion of required courses listed. It is recommended that all students consult with the department chairperson or faculty advisor to file an educational plan.

These programs are intended to prepare students for employment following graduation. Students desiring a Bachelor's Degree (transfer program) should consult with the department chairperson or faculty advisor to file an educational plan and to discuss transferability of courses. The curriculum is flexible in nature to allow for previous experience and specialization in a given area of agriculture and agricultural business.

Requirements for the Major

Required courses:

AGAB	20	Microcomputer Applications in Agriculture	3.0	CSU,UC
AGAG	1	Food Production, Land Use and Politics - A Global Perspective	3.0	CSU,UC
AGAG	59	Work Experience in Agriculture, or	1.0	
AGAG	60	Work Experience in Agriculture, or	2.0	
AGAG	61	Work Experience in Agriculture, or	3.0	
AGAG	62	Work Experience in Agriculture	4.0	
AGAG	91	Agricultural Calculations	3.0	
AGAN	1	Animal Science	3.0	CSU,UC
AGAN	2	Animal Nutrition	3.0	CSU
AGAN	94	Animal Breeding	3.0	
AGLI	14	Swine Production	3.0	CSU
AGLI	16	Horse Production	4.0	CSU,UC
AGLI	17	Sheep Production	3.0	CSU
AGLI	30	Beef Production	3.0	CSU
AGLI	34	Livestock Judging and Selection	2.0	CSU,UC
AGLI	96	Animal Sanitation and Disease Control	3.0	CSU

PLUS

Select six (6) units from:

AGOR	53	Small Engine Repair I	3.0	CSU
AGOR	71	Landscape Construction Fundamentals	3.0	CSU
BUSM	20	Principles of Business	3.0	CSU,UC
BUSM	66	Small Business Management	3.0	
BUSS	35	Professional Selling	3.0	CSU
BUSS	36	Principles of Marketing	3.0	CSU

Total Units 43.0 - 46.0

Manufacturing Technology

MANUFACTURING TECHNOLOGY DEPARTMENT

Major 20918

This curriculum is designed to prepare the student for entrance into the manufacturing field in one of the machining occupations, such as machinist (manual, N/C, and CAD/CAM), or machinist apprentice.

Graduates may enter the manufacturing field in areas dealing with production, research and development, tool and die construction, mold making, or computerized manufacturing. Laboratory practice utilizes industrial types of equipment and precision measuring instruments to provide training in the various machining occupations. Setup and tooling procedures and part verification upon completion of the metal removing process are covered. Instruction on all types of lathes, mills, grinders, and specialized equipment such as EDM and CNC is included. Supplementary instruction is also provided in bench work, layout, inspection process, blueprint reading, metal composition, heat treatment, assembly procedures, jig and fixture design, and construction.

Requirements for the Major

Required courses:

CIM	15	Autocad (Mechanical for CIM)	2.0	
CIM	17	Autocad-3D (Mechanical for CIM)	2.0	
CIM	19	Autocad Mechanical Desktop for Manufacturing	2.0	
MFG	11	Manual and CNC Manufacturing Essentials	2.0	CSU
MFG	35	Edgecam - Basic Mill	3.0	CSU
MFG	36	Edgecam for Surfaces and Solids	2.0	
MFG	38	Mastercam I	2.0	CSU
MFG	38B	Advanced Mastercam	2.0	CSU
MFG	38C	Mastercam Solids	2.0	
MFG	39	Surfcam I	2.0	CSU
MFG	39B	Surfcam II	2.0	CSU
MFG	58	Blueprint Reading for Manufacturing	2.0	
MFG	70	Technical Mathematics - Manufacturing Applications	2.0	CSU
MFG	85	Manual CNC (Computerized Numerical Control) Operations	2.0	CSU

PLUS

Select two (2) courses from:

CIM	25	Advanced Mechanical Desktop	2.0	
CIM	27	Autodesk Inventor	2.0	
WELD	40	Introduction to Welding	2.0	CSU

Total Units 33.0

Marketing Management

BUSINESS ADMINISTRATION DEPARTMENT

Major 20510

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

Requirements for the Major

Required courses:

BUSA	7	Principles of Accounting - Financial, or	5.0	CSU,UC
BUSA	72	Bookkeeping - Accounting	5.0	
BUSM	20	Principles of Business	3.0	CSU,UC
BUSM	61	Business Organization and Management	3.0	CSU
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 Concepts	3.0	
BUSS	85	Special Issues in Marketing	2.0	
COMP	16	Microcomputer Applications	3.5	CSU,UC

PLUS

Select one (1) course from:

BUSC	1A	Principles of Economics - Macroeconomics, or	3.0	CSU,UC
BUSC	1AH	Principles of Economics - Macroeconomics - Honors	3.0	CSU,UC
BUSC	1B	Principles of Economics - Microeconomics, or	3.0	CSU,UC
BUSC	1BH	Principles of Economics - Microeconomics - Honors	3.0	CSU,UC
BUSC	17	Applied Business Statistics	3.0	CSU,UC
BUSM	60	Human Relations in Business	3.0	CSU
BUSO	5	Business English	3.0	

Total Units 31.5

Mental Health Technology - Psychiatric Technology

MENTAL HEALTH DEPARTMENT

Major 21208

Mt. San Antonio College - in conjunction with state and community clinical laboratories, convalescent homes, and public health agencies - offers a Psychiatric Technology Program. It will prepare students to take the California State Licensure Examination for Psychiatric Technicians.

Requirements for the Major

Required courses:

MENT	56	Medical-Surgical Nursing for Psychiatric Technicians	9.0	
MENT	56AL	Clinical Experience	1.0	
MENT	56BL	Clinical Experience	3.0	
MENT	58	Medical-Surgical Nursing for Psychiatric Technicians	2.0	
MENT	58L	Clinical Experience	1.5	
MENT	70	Mental Health	1.5	
MENT	70L	Clinical Experience	2.0	
MENT	71	Drug Therapy for Mental Health Technology	2.0	
MENT	72	Mental Health Technology	7.0	
MENT	72L	Clinical Experience	5.0	
MENT	73	Mental Health Technology	4.0	
MENT	73L	Clinical Experience	5.0	
MENT	76	Psychiatric Pharmacology	1.0	
MENT	77	Assertive Leadership for Health Care Sciences	1.0	
MENT	82	Work Experience in Mental Health Technology	2.0	
PSYC	1A	General Psychology	3.0	CSU,UC
PSYC	40	Introduction to Interviewing and Counseling	3.0	
Total Units			53.0	

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.

Admission Requirements, Application, and Selection Procedures

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:

- Be a high school graduate or equivalent.
- 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.

- e. Take the required College English Placement Examination. Eligibility for ENGL 68 is advised.

If you have already taken a college placement exam (ASSET, EPT, ACT, SAT) within the past two (2) 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 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 College English Placement Examination, if required. The Assessment Center is open Monday through Thursday from 8:00 a.m. to 8:00 p.m. and Friday from 8:00 a.m. to 4:30 p.m. You may contact them at (909) 594-5611, Ext. 4265.

- f. Forward two (2) official transcripts of all course work completed (high school, nursing school, and other than Mt. San Antonio College courses.) One (1) 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 College English Placement Examination is not required. However, it will be necessary for a student to obtain two (2) official copies of the college transcript showing the degree issued. One (1) transcript must be sent to the Technology and Health Division Office and the other to the Admissions and Records Office.

NOTE: Concerning Admission 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.

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

- h. A physical examination, consent/disclaimer for Hepatitis V vaccine, certain immunizations, proof of high school graduation, and malpractice insurance are required of all candidates upon acceptance. Forms and information will be provided at that time.
- i. Certain convictions may prevent a candidate from being licensed as a Psychiatric Technician.

SELECTION PROCEDURE:

In determining eligibility of an applicant, consideration will be given to satisfactory scores on the College English Placement Examination.

The College will make every effort to notify the applicant of acceptance by mail no less than two (2) months prior to the beginning of a program.

Nursing

NURSING DEPARTMENT

Major 21203

The Mt. San Antonio College Nursing Program, approved by the California Board of Registered Nursing, is a two-year program designed to prepare individuals at the Associate Degree level for entry into the practice of registered nursing. The goal of Associate Degree Nursing Education is to prepare registered nurses to provide direct client care. Graduates of the program receive an Associate in Science Degree in Nursing and are eligible to take the examination leading to licensure as a Registered Nurse.

The Licensed Vocational Nurse and Psychiatric Technician are 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 30-Unit Option track which does not lead to a degree. The Licensed Psychiatric Technician is eligible to pursue advanced placement into the degree track earning an Associate in Science Degree in Nursing upon program completion.

Requirements for the Major

Required courses:

Associate Degree Nursing Program admission requirements, and

ANAT	35	Human Anatomy, and	5.0	CSU,UC
ANAT	36	Human Physiology, or	5.0	CSU,UC
ANAT	10A	Introductory Human Anatomy, and	4.0	CSU,UC
ANAT	10B	Introductory Human Physiology	4.0	CSU,UC
CHLD	10	Child Growth and Development, or	3.0	CSU,UC
CHLD	10H	Child Growth and Development - Honors	3.0	CSU,UC
PSYC	1A	Introduction to Psychology, or	3.0	CSU,UC
PSYC	1AH	Introduction to Psychology - Honors	3.0	CSU,UC
ENGL	1A	Freshman Composition, or	3.0	CSU,UC
ENGL	1AH	Freshman Composition - Honors	3.0	CSU,UC
MICR	22	Microbiology, or	4.0	CSU,UC
MICR	1	Principles of Microbiology	5.0	CSU,UC
NF	25	Essentials of Nutrition, or	3.0	CSU,UC
NF	25H	Essentials of Nutrition - Honors	3.0	CSU,UC
NURS	1A	The Nursing Process I	4.7	CSU
NURS	1B	The Nursing Process II	4.7	CSU
NURS	2	Pharmacology	2.0	CSU
NURS	3	Medical-Surgical Nursing: Locomotion/Sensation/ Integument/Oncology/Immunology	3.5	CSU
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 Asepsis	7.0	CSU
NURS	8	Medical-Surgical Nursing: Circulation and Oxygenation	5.0	CSU
NURS	9	Leadership in Nursing	1.0	CSU
NURS	10	Medical-Surgical Nursing: Integration/Regulation	4.0	CSU
NURS	11	Preceptorship in Nursing	2.0	CSU
SPCH	1A	Public Speaking, or	3.0	CSU,UC
SPCH	1AH	Public Speaking - Honors	3.0	CSU,UC

Total Units 70.0 - 73.0

CHILD 10 or CHLD 10H must be taken prior to the third semester of the program. PSYC 1A or PSYC 1AH must be taken prior to the second semester of the program.

*Special Information

To remain in the program, students must maintain a grade of "C" (75%) in all nursing courses.

The Associate in Science Degree in Nursing will be awarded upon the completion of the graduation requirements of the College. (Refer to Section 7 of the Catalog). In addition, completion of the requirements qualifies the student to take the National Council Licensure Examination for Registered Nurses (NCLEX-RN).

Courses required for the Nursing Program may be challenged. Refer to credit granting and transfer policies available in the Nursing Office.

*ADMISSION REQUIREMENTS, APPLICATION, AND SELECTION PROCEDURES

Admission Requirements

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

- a. High school graduation or G.E.D. or academic degree from an accredited college/university in the United States.
- b. File a College application and be accepted as a student at Mt. San Antonio College.
- c. Complete the following prerequisite courses with a minimum grade of "C" in each course. Prerequisite courses must have minimum overall G.P.A. of 2.5:

- *ANAT 35 Human Anatomy, or equivalent and
- *ANAT 36 Human Physiology, or equivalent or
- *ANAT 10A Introductory Human Physiology, or equivalent and
- *ANAT 10B Introductory Human Anatomy, or equivalent and
- MICR 22 Microbiology, or equivalent or
- MICR 1 Principles of Microbiology, or equivalent and
- NF 25 Essentials of Nutrition, or
- NF 25H Essentials of Nutrition - Honors, or equivalent and
- ENGL 1A Freshman Composition, or
- ENGL 1AH Freshman Composition - Honors, or equivalent

***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. Science courses cannot be older than five (5) years at time of application to the program. Exams to validate proficiency in the event of outdated science courses are available. Contact the Nursing Office for additional information.

- d. Provide evidence of eligibility for MATH 51 by:
 1. Successfully having completed MATH 50 or equivalent coursework OR
 2. Complete the Algebra Readiness Exam with a score which will qualify for MATH 51.

Contact the Assessment Center, (Student Services Center, Ext. 4265) to obtain information and schedule an appointment to take this exam. Scores are valid for two years only.

- e. Review and complete an educational plan with an advisor located in the Student Services Center, upper level. No appointments necessary. If you have attended other colleges, you must provide copies of transcripts to the office of School and College Relations for a complete evaluation. This educational plan should be part of the applicant's portfolio at the time of application.

Application Procedures

- a. Applicants are responsible for preparing a portfolio which includes:
 1. Sealed official transcripts which verify completion of prerequisite courses, including those taken at Mt.

SAC (refer to courses listed under Admission Requirements). In order to determine equivalency of coursework from another college, course descriptions and syllabus or topical outline of the course must accompany the transcript. NOTE: Official transcripts verifying previous coursework, other than MSAC, must also be submitted to the Admissions and Records Office.

2. Verification of high school graduation or equivalent (official high school diploma/transcript or G.E.D. or academic degree from an accredited college/university in the United States).
 3. Computer printout verifying eligibility for placement in MATH 51 or equivalent college coursework.
- A copy of the completed Verification Form and a Nursing Program Application will be given to the applicant at the verification appointment. The application will be completed by the applicant and submitted at this appointment.

It is the responsibility of the applicant to provide official documentation of prior coursework, experience, licenses, and certificates. Applicants are evaluated and counseled on an individual basis.

- b. After all admission requirements outlined above have been met, contact the Nursing Office at (909) 594-5611, Ext. 4560, to schedule an appointment to complete the Verification Form and to submit a completed portfolio. Only complete portfolios will be accepted at the scheduled appointment.

Selection Procedures

Students are selected for placement in the program by level of achievement in prerequisite requirements. The applicant's name is placed on an acceptance list which has been prioritized by date and time of portfolio review. Classes are admitted in fall and spring semesters. Students who are eligible, but not admitted because of space limitations, will retain priority on the accept list for admission.

Applicants who are accepted to the program must attend a mandatory scheduled orientation session. Those who do not attend the orientation and have not communicated with the Program Director, in advance, will lose their acceptance status. These applicants will need to reapply to the Nursing Program in order to be reconsidered for entry at a later date. Applicants who are accepted will be offered no more than two (2) entry dates without reapplication.

A physical examination, including specific immunizations, a current Level C-Provider CPR certification, and malpractice insurance are required of all candidates prior to the beginning of nursing classes. Specific information will be provided at a scheduled orientation session.

Paralegal/Legal - Bankruptcy Specialty

BUSINESS ADMINISTRATION DEPARTMENT

Major 21401

The Paralegal/Legal - Bankruptcy Specialty program is intended to prepare students for employment as paralegals in both private and public sectors following graduation. The American Bar Association (ABA) By-Laws Section 21.12 uses the terms paralegal and legal assistant interchangeably referring to persons who, although not members of the legal profession, are qualified through education, training, or work experience and are employed or retained by a lawyer, law office, governmental agency, or other entity in a capacity or function which involves the performance, under the direction and supervision of an attorney, of specifically delegated substantive legal work. Paralegals/legal assistants must comply with the legal restrictions in the practice of law by nonlawyers.

The paralegal program stresses practical application and the development of job skills, as well as teaching legal theory. The program is designed to enhance the ability of students to reason, understand and apply correct principles of law by teaching analytical and critical thinking skills as opposed to rote learning. Graduates of the program will qualify for entry level employment and will possess skills for advancement and specialized areas in the paralegal profession. Students wishing a Bachelor's Degree (transfer program) should consult with an advisor to discuss transferability of courses.

The American Bar Association has reviewed the Paralegal/Legal Specialist Program and found it in compliance with the standards developed by the Standing Committee on Legal Assistant Programs. The Paralegal/Legal Specialty Program has been granted approval by the American Bar Association.

Requirements for the Major

Required core courses:

BUSL	30	Introduction to Paralegal/Legal	3.0	CSU
BUSL	31A	Legal Analysis and Writing	3.0	
BUSL	31B	Advanced Legal Analysis and Writing	3.0	
BUSL	33A	Civil Procedure Pretrial	3.0	
BUSL	33B	Civil Procedure-Trial and Post-Trial	3.0	
BUSL	35A	Law Office Procedures	3.0	
BUSL	35B	Automated Law Office Procedures	3.0	
BUSL	37	Tort Law	3.0	
BUSL	38	Employment and Ethical Issues in Paralegalism	2.0	
BUSL	39	Contract Law	3.0	

Plus the following courses:

BUSL	41	Property Law	3.0	
BUSL	44	Bankruptcy Law	3.0	
BUSL	45	Creditors' Rights	3.0	

Total Units 38.0

The Paralegal/Legal faculty recommend that you complement your studies with selected elective courses, including BUSL 36 - Paralegal Internship. You should meet with a professor of the Paralegal/Legal program to help you determine which of those electives would best suit your career plans.

Special Information

The ABA does not recognize the following courses as meeting its definition of General Education: ARTB 14, ARTD 15A, ARTD 17A, ARTD 20, ARTD 25A, ARTS 30A, ARTS 40A, DRMA 11, MUS 7, AD 3 and COUN 5. Students developing their educational plan should select another course from the Mt.SAC General Education area which will satisfy that area's General Education requirement.

Paralegal majors are encouraged to meet regularly with the Paralegal professors for advisement on their educational plans.

Paralegal/Legal - Corporations/Business Specialty

BUSINESS ADMINISTRATION DEPARTMENT

Major 21405

The Paralegal/Legal - Corporations/Business Specialty program is intended to prepare students for employment as paralegals in both private and public sectors following graduation. The American Bar Association (ABA) By-Laws Section 21.12 uses the terms paralegal and legal assistant interchangeably referring to persons who, although not members of the legal profession, are qualified through education, training, or work experience and are employed or retained by a lawyer, law office, governmental agency, or other entity in a capacity or function which involves the performance, under the direction and supervision of an attorney, of specifically delegated substantive legal work. Paralegals/legal assistants must comply with the legal restrictions in the practice of law by nonlawyers.

The paralegal program stresses practical application and the development of job skills as well as teaching legal theory. The program is designed to enhance the ability of students to reason, understand and apply correct principles of law by teaching analytical and critical thinking skills as opposed to rote learning. Graduates of the program will qualify for entry level employment and will possess skills for advancement and specialized areas in the paralegal profession. Students wishing a Bachelor's Degree (transfer program) should consult with an advisor to discuss transferability of courses.

The American Bar Association has reviewed the Paralegal/Legal Specialist Program and found it in compliance with the standards developed by the Standing Committee on Legal Assistant Programs. The Paralegal/Legal Specialty Program has been granted approval by the American Bar Association.

Requirements for the Major

Required core courses:

BUSL	30	Introduction to Paralegal/Legal	3.0	CSU
BUSL	31A	Legal Analysis and Writing	3.0	
BUSL	31B	Advanced Legal Analysis and Writing	3.0	
BUSL	33A	Civil Procedure Pretrial	3.0	
BUSL	33B	Civil Procedure-Trial and Post-Trial	3.0	
BUSL	35A	Law Office Procedures	3.0	
BUSL	35B	Automated Law Office Procedures	3.0	
BUSL	37	Tort Law	3.0	
BUSL	38	Employment and Ethical Issues in Paralegalism	2.0	
BUSL	39	Contract Law	3.0	

Plus the following courses:

BUSL	18	Business Law, or	3.0	CSU,UC
BUSL	18H	Business Law - Honors	3.0	CSU
BUSL	19	Advanced Business Law	3.0	CSU,UC
BUSL	20	International Business Law	3.0	

Total Units 38.0

Recommended Electives:

The Paralegal/Legal faculty recommend that you complement your studies with selected elective courses, including BUSL 36B-Paralegal Internship and BUSL 50-Comparative Law. You should meet with a professor of the Paralegal/Legal program to help you determine which of those electives would best suit your career plans.

Special Information

The ABA does not recognize the following courses as meeting its definition of General Education: ARTB 14, ARTD 15A, ARTD 17A, ARTD 20, ARTD 25A, ARTS 30A, ARTS 40A, DRMA 11, MUS 7, AD 3, and COUN 5. Students developing their educational plan should select that area's General Education requirements.

Paralegal/Legal majors are encouraged to meet regularly with the Paralegal professors for advisement on their educational plans.

Paralegal/Legal - Criminal Specialty

BUSINESS ADMINISTRATION DEPARTMENT

Major 21402

The Paralegal/Legal - Criminal Specialty program is intended to prepare students for employment as paralegals in both private and public sectors following graduation. The American Bar Association (ABA) By-Laws Section 21.12 uses the terms paralegal and legal assistant interchangeably referring to persons who, although not members of the legal profession, are qualified through education, training, or work experience and are employed or retained by a lawyer, law office, governmental agency, or other entity in a capacity or function which involves the performance, under the direction and supervision of an attorney, of specifically delegated substantive legal work. Paralegals/legal assistants must comply with the legal restriction in the practice of law by nonlawyers.

The paralegal program stresses practical application and the development of job skills as well as teaching legal theory. The program is designed to enhance the ability of students to reason, understand and apply correct principles of law by teaching analytical and critical thinking skills as opposed to rote learning. Graduates of the program will qualify for entry level employment and will possess skills for advancement and specialized areas in the paralegal profession. Students wishing a Bachelor's Degree (transfer program) should consult with an advisor to discuss transferability of courses.

The American Bar Association has reviewed the Paralegal/Legal Specialist Program and found it in compliance with the standards developed by the Standing Committee on Legal Assistant Programs. The Paralegal/Legal Specialty Program has been granted approval by the American Bar Association.

Requirements for the Major

Required courses:

BUSL	30	Introduction to Paralegal/Legal	3.0	CSU
BUSL	31A	Legal Analysis and Writing	3.0	
BUSL	31B	Advanced Legal Analysis and Writing	3.0	
BUSL	33A	Civil Procedure Pretrial	3.0	
BUSL	33B	Civil Procedure-Trial and Post-Trial	3.0	
BUSL	35A	Law Office Procedures	3.0	
BUSL	35B	Automated Law Office Procedures	3.0	
BUSL	37	Tort Law	3.0	
BUSL	38	Employment and Ethical Issues in Paralegalism	2.0	
BUSL	39	Contract Law	3.0	
BUSL	48	Criminal Law and Procedures	3.0	
BUSL	49	Evidence Law	3.0	
Total Units			35.0	

Recommended Electives:

The Paralegal/Legal faculty recommend that you complement your studies with selected elective courses, including BUSL 36 - Paralegal Internship. You should meet with a professor of the Paralegal/Legal program to help you determine which of those electives would best suit your career plans.

Special Information

The ABA does not recognize the following courses as meeting its definition of General Education: ARTB 14, ARTD 15A, ARTD 17A, ARTD 20, ARTD 25A, ARTS 30A, ARTS 40A, DRMA 11, MUS 7, AD 3 and COUN 5. Students developing their educational plan should select another course from the MT.SAC General Education area which will satisfy that area's General Education requirements.

Paralegal majors are encouraged to meet regularly with the Paralegal professors for advisement on their educational plans.

Paralegal/Legal - Family Law Specialty

BUSINESS ADMINISTRATION DEPARTMENT

Major 21403

The Paralegal/Legal - Family Law Specialty program is intended to prepare students for employment as paralegals in both private and public sectors following graduation. The American Bar Association (ABA) By-Laws Section 21.12 uses the terms paralegal and legal assistant interchangeably referring to persons who, although not members of the legal profession, are qualified through education, training, or work experience and are employed or retained by a lawyer, law office, governmental agency, or other entity in a capacity or function which involves the performance, under the direction and supervision of an attorney, of specifically delegated substantive legal work. Paralegals/legal assistants must comply with the legal restrictions in the practice of law by nonlawyers.

The paralegal program stresses practical application and the development of job skills as well as teaching legal theory. The program is designed to enhance the ability of students to reason, understand and apply correct principles of law by teaching analytical and critical thinking skills as opposed to rote learning. Graduates of the program will qualify for entry level employment and will possess skills for advancement and specialized areas in the paralegal profession. Students wishing a Bachelor's degree (transfer program) should consult with an advisor to discuss transferability of courses.

The American Bar Association has reviewed the Paralegal/Legal Specialist Program and found it in compliance with the standards developed by the Standing Committee on Legal Assistant Programs. The Paralegal/Legal Specialty Program has been granted approval by the American Bar Association.

Requirements for the Major

Required courses:

BUSL	30	Introduction to Paralegal/Legal	3.0	CSU
BUSL	31A	Legal Analysis and Writing	3.0	
BUSL	31B	Advanced Legal Analysis and Writing	3.0	
BUSL	33A	Civil Procedure Pretrial	3.0	
BUSL	33B	Civil Procedure-Trial and Post-Trial	3.0	
BUSL	35A	Law Office Procedures	3.0	
BUSL	35B	Automated Law Office Procedures	3.0	
BUSL	37	Tort Law	3.0	
BUSL	38	Employment and Ethical Issues in Paralegalism	2.0	
BUSL	39	Contract Law	3.0	

Plus the following courses:

BUSL	41	Property Law	3.0
BUSL	42	Family Law	3.0
BUSL	43	Wills and Trusts	3.0

Total Units 38.0

Recommended Electives:

The Paralegal/Legal faculty recommend that you complement your studies with selected elective courses, including BUSL 36 - Paralegal Internship. You should meet with a professor of the Paralegal/Legal program to help you determine which of those electives would best suit your career plans.

Special Information

The ABA does not recognize the following courses as meeting its definition of General Education: ARTB 14, ARTD 15A, ARTD 17A, ARTD 20, ARTD 25A, ARTS 30A, ARTS 40A, DRMA 11, MUS 7, AD 3 and COUN 5. Students developing their educational plan should select another course from the Mt.SAC General Education area which will satisfy that area's General Education requirement.

Paralegal majors are encouraged to meet regularly with the Paralegal professors for advisement on their educational plans.

PROGRAMS OF STUDY
LEADING TO AN
ASSOCIATE IN SCIENCE
DEGREE

Paralegal/Legal - Landlord/Tenant Specialty

BUSINESS ADMINISTRATION DEPARTMENT

Major 21404

The Paralegal/Legal - Landlord/Tenant Specialty program is intended to prepare students for employment as paralegals in both private and public sectors following graduation. The American Bar Association (ABA) By-Laws Section 21.12 uses the terms paralegal and legal assistant interchangeably referring to persons who although not members of the legal profession, are qualified through education, training, or work experience and are employed or retained by a lawyer, law office, governmental agency, or other entity in a capacity or function which involves the performance, under the direction and supervision of an attorney, of specifically delegated substantive legal work. Paralegals/legal assistants must comply with the legal restrictions in the practice of law by nonlawyers.

The paralegal program stresses practical application and the development of job skills as well as teaching legal theory. The program is designed to enhance the ability of students to reason, understand and apply correct principles of law by teaching analytical and critical thinking skills as opposed to rote learning. Graduates of the program will qualify for entry level employment and will possess skills for advancement and specialized areas in the paralegal profession. Students wishing a Bachelor's Degree (transfer program) should consult with an advisor to discuss transferability of courses.

The American Bar Association has reviewed the Paralegal/Legal Specialist Program and found it in compliance with the standards developed by the Standing Committee on Legal Assistant Programs. The Paralegal/Legal Specialty Program has been granted approval by the American Bar Association.

Requirements for the Major

Required core courses:

BUSL	30	Introduction to Paralegal/Legal	3.0	CSU
BUSL	31A	Legal Analysis and Writing	3.0	
BUSL	31B	Advanced Legal Analysis and Writing	3.0	
BUSL	33A	Civil Procedure Pretrial	3.0	
BUSL	33B	Civil Procedure-Trial and Post-Trial	3.0	
BUSL	35A	Law Office Procedures	3.0	
BUSL	35B	Automated Law Office Procedures	3.0	
BUSL	37	Tort Law	3.0	
BUSL	38	Employment and Ethical Issues in Paralegalism	2.0	
BUSL	39	Contract Law	3.0	

Plus the following courses:

BUSL	40	Landlord-Tenant Law	3.0	
BUSL	41	Property Law	3.0	

Total Units 35.0

Recommended Electives:

The Paralegal/Legal faculty recommend that you complement your studies with selected elective courses, including BUSL 36 Paralegal Internship. You should meet with a professor of the Paralegal/Legal program to help you determine which of those electives would best suit your career plans.

Special Information

The ABA does not recognize the following courses as meeting its definition of General Education: ARTB 14, ARTD 15A, ARTD 17A, ARTD 20, ARTD 25A, ARTS 30A, ARTS 40A, DRMA 11, MUS 7, AD 3 and COUN 5. Students developing their educational plan should select another course from the Mt.SAC General Education area which will satisfy that area's General Education requirement.

Paralegal majors are encouraged to meet regularly with the Paralegal professors for advisement on their educational plans.

Park Management

AGRICULTURAL SCIENCES DEPARTMENT

Major 20116

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. Students must file an educational plan with the Director of the Animal Health Technology Program during the first year of study.

These programs are intended to prepare students for employment following graduation. Students desiring a Bachelor's Degree (transfer program) should consult with the department chairperson or faculty advisor to file an educational plan and to discuss transferability of courses. The curriculum is flexible in nature to allow for previous experience and specialization in a given area of agriculture and agricultural business.

Requirements for the Major

Required courses:

AGAB	20	Microcomputer Applications in Agriculture	3.0	CSU,UC
AGAG	1	Food Production, Land Use and Politics - A Global Perspective	3.0	CSU,UC
AGOR	4	Park Management	3.0	
AGOR	5	Park Facilities	3.0	
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 - Trees and Woody Shrubs	3.0	CSU,UC
AGOR	39	Turf Grass Production and Management	3.0	CSU
AGOR	51	Tractor and Landscape Equipment Operations	3.0	
AGOR	62	Landscape Irrigation - Design and Installation	3.0	CSU
AGOR	71	Landscape Construction Fundamentals	3.0	CSU
AGOR	75	Urban Arboriculture	3.0	
AGOR	91	Work Experience in Nursery Operations, or	1.0	
AGOR	92	Work Experience in Nursery Operations, or	2.0	
AGOR	93	Work Experience in Nursery Operations, or	3.0	
AGOR	94	Work Experience in Nursery Operations	4.0	

Total Units 40.0 - 43.0

Pet Science

AGRICULTURAL SCIENCES DEPARTMENT

Major 20104

The program of courses in Agriculture is designed to enable students to prepare for a career in this essential and diverse profession. The Department offers a comprehensive Agricultural Sciences Program and is unique in that most courses provide hands-on experience designed to give the student a combination of practical skills and technical knowledge. Students who intend to transfer should check the lower division requirements in the catalog of the college or university which they will attend and also the semester and year in which courses are offered.

The following programs list all courses needed to satisfy major requirements. Students may obtain certificates upon completion of required courses listed. It is recommended that all students consult with the department chairperson or faculty advisor to file an educational plan.

These programs are intended to prepare students for employment following graduation. Students desiring a Bachelor's Degree (transfer program) should consult with the department chairperson or faculty advisor to file an educational plan and to discuss transferability of courses. The curriculum is flexible in nature to allow for previous experience and specialization in a given area of agriculture and agricultural business.

Requirements for the Major

Required courses:

AGAB	20	Microcomputer Applications in Agriculture	3.0	CSU,UC
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 and Disease Control	3.0	CSU
AGPE	70	Pet Shop Management	3.0	
AGPE	71	Canine Management	3.0	
AGPE	72	Feline Management	3.0	
AGPE	73	Tropical and Coldwater Fish Management	2.0	
AGPE	74	Reptile Management	2.0	
AGPE	76	Aviculture - Cage and Aviary Birds	3.0	
Total Units			34.0	

Photography

EARTH SCIENCES, PHOTOGRAPHY, ASTRONOMY DEPARTMENT

Major 21002

This program is designed to prepare the student for employment in the field of photography. A variety of career opportunities are available in photography, art, cinema, communications, industrial arts, graphics, and journalism. Students desiring a Bachelor's Degree should consult with an advisor or catalog of the institution they wish to attend regarding transferability of courses.

Requirements for the Major

Required courses:

GRAP	49	Graphic Design With Freehand and Other Drawing Programs	4.0	
PHOT	10	Beginning Photography	3.0	CSU,UC
PHOT	11	Advanced Professional Photography	4.0	
PHOT	12	Photographic Alternatives	3.0	CSU,UC
PHOT	15	History of Photography	3.0	CSU,UC
PHOT	16	Fashion Photography, or	3.0	
PHOT	17	Photocommunication	3.0	
PHOT	18	Portraiture and Wedding Photography	3.0	
PHOT	20	Color Photography	3.0	
PHOT	21	Exploring Color Photography	3.0	
PHOT	30	Commercial and Illustrative Photography	3.0	
			Total Units	32.0

Recommended Electives:

GRAP	48	Introduction to Digital Design Systems
PHOT	8	Digital Photography
PHOT	14	Zone System
PHOT	22	Photojournalism
PHOT	27	Non-Silver Applications
PHOT	28	Photography Portfolio Development

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

Physical Education

PHYSICAL EDUCATION DEPARTMENT

Major 20806

This program is designed to prepare students for employment in the field of Physical Education. Students wishing a Bachelor's Degree (transfer program) should consult with an advisor to file an educational plan and to discuss transferability.

Requirements for the Major

Required courses:

ANAT	35	Human Anatomy	5.0	CSU,UC
ANAT	36	Human Physiology	5.0	CSU,UC
NF	25	Essentials of Nutrition, or	3.0	CSU,UC
NF	25H	Essentials of Nutrition - Honors, or	3.0	CSU,UC
NF	63	Basic Nutrition	3.0	CSU
PE	3	First Aid and CPR, or	3.0	CSU,UC
PE	5	Advanced First Aid/CPR/Emergency Response	3.0	CSU
PE	17	Introduction to Physical Education	3.0	CSU,UC
PE	19	Introduction to Care/Prevention of Activity/Sports -Related Injuries	3.0	CSU,UC
PE	34	Fitness for Living	3.0	CSU,UC

PLUS

Select eight (8) courses from:

DNCE	DANCE: ACTIVITY	1.0-2.0	CSU,UC
PE-A	PHYSICAL EDUCATION: AQUATICS0	.5-2.0	CSU,UC
PE-F	PHYSICAL EDUCATION: FITNESS	0.1-3.0	CSU,UC
PE-I	PHYSICAL EDUCATION: INDIVIDUAL	0.0-1.0	CSU,UC
PE-L	PHYSICAL EDUCATION: ADAPTIVE	0.5-1.0	CSU,UC
PE-S	PHYSICAL EDUCATION: TEAM SPORTS	0.5-1.0	CSU,UC

Total Units 32.1 - 42.0

Radio and Television Broadcasting

COMMUNICATION, DRAMA, BROADCASTING, JOURNALISM DEPARTMENT

Major 20603

The curriculum outlined below qualifies the student for an Associate in Science Degree. Students planning to transfer in this major should refer to the catalog of the institution to which they intend to transfer in order to determine the course requirements of that institution.

Requirements for the Major

Required courses:

JOUR	2	Mass Media and Society	3.0	CSU,UC
R-TV	01	Introduction to Broadcasting	3.0	CSU
R-TV	02	Radio and Television Announcing	3.0	CSU
R-TV	08	Radio Studio Operations	2.0	CSU
R-TV	11A	Beginning Radio Production, and	3.0	CSU
R-TV	11B	Advanced Radio Production, or	3.0	CSU
R-TV	19A	Beginning Television Production, and	3.0	CSU
R-TV	19B	Advanced Television Production	3.0	CSU

PLUS

Select one (1) course from:

DRMA	11	Principles of Acting	3.0	CSU,UC
R-TV	11A	Beginning Radio Production, or	3.0	CSU
R-TV	19A	Beginning Television Production	3.0	CSU
SPCH	4	Oral Interpretation of Literature	3.0	CSU,UC

Total Units 20.0

NOTE: Students focusing on Radio Broadcasting will take R-TV 11A and 11B; those focusing on Television Broadcasting will take R-TV 19A and 19B.

Recommended Electives:

BUSO	1	Typing/Keyboarding
CIS	10A	Computer Information Systems
SPCH	6	Group Discussion

The Radio and Television Broadcasting faculty recommend that you complement your studies with selected courses chosen from the list above. You should meet with an advisor to help you determine which electives would best suit your career plans.

Radiologic Technology

RADIOLOGIC TECHNOLOGY DEPARTMENT

Major 21206

The course of study in Radiologic Technology offered at Mt. San Antonio College and its affiliated hospitals will enable students to 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. The student 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.

Students who have completed four (4) semesters and three (3) summer sessions of preparation at the College and its affiliated hospitals are eligible to apply for the registry examination through the American Registry of Radiologic Technologists and the California Certification of Radiologic Technology.

Requirements for the Major

Required courses:

ANAT	10A	Introductory Human Anatomy	4.0	CSU,UC
COMP	10	Operating the Macintosh Computer	1.5	CSU
MEDI	90	Medical Terminology	3.0	CSU
RAD	30	Radiographic Pathology	1.5	
RAD	31	Fluoroscopy	2.0	
RAD	50	Radiologic Technology	3.0	CSU
RAD	52	Techniques of Radiologic Technology	4.0	CSU
RAD	53	Techniques of Radiologic Technology	4.0	CSU
RAD	54	Techniques of Radiologic Technology	6.5	CSU
RAD	55	Techniques of Radiologic Technology	6.0	CSU
RAD	56	Techniques of Radiologic Technology	6.0	CSU
RAD	57	Techniques of Radiologic Technology	8.0	CSU
RAD	61A	Theory of Radiologic Technology	4.0	CSU
RAD	61B	Radiographic Positioning	3.0	CSU
RAD	61C	Radiologic Technology Seminar	1.0	CSU
RAD	62A	Theory of Radiologic Technology	4.0	CSU
RAD	62B	Radiographic Positioning	3.0	CSU
RAD	62C	Radiologic Technology Seminar	1.0	CSU
RAD	63	Theory of Radiologic Technology	4.0	CSU
RAD	64	Theory of Radiologic Technology	4.0	CSU
RAD	91	Nursing Procedures in Radiologic Technology	2.0	CSU
Total Units			75.5	

***NOTE:** ANAT 10A, and MEDI 90 may be taken prior to RAD 50.

Special Information

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.

Admission Requirements and Selection Procedures

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.
- c. File a college application and be accepted as a student at Mt. San Antonio College.
- d. 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 session.
- e. Take the college placement examination which is used as an indicator.

If you have already taken a college placement exam (ASSET, CPP, SCAT, ACT, SAT) within the past two (2) 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 "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 college placement examination if required. The Assessment Center is open Monday through Thursday from 8:00 a.m. to 8:00 p.m., and Friday, from 8:00 a.m. to 4:30 p.m. 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:
 - 1) General High School Algebra (one year), or Introductory College Algebra (one semester) or MATH 51 - Elementary Algebra, or equivalent;
 - 2) General High School Chemistry (one year), or Introductory College Chemistry (one semester), or *CHEM 2A - Fundamentals of Chemistry, or equivalent;

*Transfer Course, CSU

NOTE: Students must complete prerequisite courses before applying to the program.

- g. Forward two (2) official transcripts of all coursework completed (high school, nursing school, and other than Mt. San Antonio College courses). One (1) transcript must be sent to the Technology and Health Division Office, and the other to the Admissions and Records Office.
- h. For students who possess a college degree, the ASSET placement examination is not required. However, it will be necessary for a student to obtain two (2) official copies of the college transcript showing the degree issued. One (1) official transcript must be sent to the Technology and Health Division Office, and 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 your transcript is being sent to the Technology and Health Division Office.

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

- i. A physical examination, certain immunizations, and malpractice insurance are required of all candidates

after acceptance to the program and before entrance into the clinical setting. Forms and information will be provided at that time.

- j. An orientation with the Radiologic Technology Department will be held during the spring semester. Please contact the Technology and Health Division Office for date and time of orientation.
- k. Make an appointment with an educational advisor to review general education requirements for graduation.

Selection Procedure

Selection of students is based upon the completion of the above admission requirements and date of application. Students who have completed or are in progress of corequisite courses and/or have a Bachelor's Degree may be given extra consideration.

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.

Real Estate

BUSINESS ADMINISTRATION DEPARTMENT

Major 20512

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

Requirements for the Major

Required courses:

BUSM	20	Principles of Business	3.0	CSU,UC
BUSM	60	Human Relations in Business	3.0	CSU
BUSO	25	Business Communications	3.0	CSU
BUSR	50	Real Estate Principles	3.0	CSU
BUSR	51	Legal Aspects of Real Estate	3.0	
BUSR	52	Real Estate Practice, or	3.0	
BUSR	52D	Real Estate Practice Work Experience	4.0	
BUSR	53	Real Estate Finance	3.0	
BUSR	54	Real Estate Appraisal	3.0	
BUSR	55	Real Estate Economics	3.0	
BUSS	36	Principles of Marketing	3.0	CSU
COMP	16	Microcomputer Applications	3.5	CSU,UC

Total Units 33.5 - 34.5

Recommended Electives:

BUSA	7	Principles of Accounting - Financial, or
BUSA	11	Fundamentals of Accounting, or
BUSA	72	Bookkeeping - Accounting
BUSL	18	Business Law, or
BUSL	18H	Business Law - Honors
BUSM	66	Small Business Management
BUSO	1	Computer Keyboarding
BUSO	5	Business English
BUSO	26	Oral Communications for Business
BUSR	57	Income Tax Aspects of Real Estate Investments
BUSR	59	Real Estate Property Management
BUSR	76	Escrow Procedures I
BUSS	35	Professional Selling
PSYC	1A	General Psychology

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

Real Estate Appraisal

BUSINESS ADMINISTRATION DEPARTMENT

Major 20513

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

Requirements for the Major

Required courses:

BUSA	11	Fundamentals of Accounting	3.0	
BUSC	1A	Principles of Economics - Macroeconomics, or	3.0	CSU,UC
BUSC	1AH	Principles of Economics - Macroeconomics - Honors or	3.0	CSU,UC
BUSC	1B	Principles of Economics - Microeconomics, or	3.0	CSU,UC
BUSC	1BH	Principles of Economics - Microeconomics - Honors	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	54	Real Estate Appraisal	3.0	
BUSR	54SE	Standards, Ethics and Statistics for Professional Practice	1.5	
BUSR	56	Advanced Real Estate Appraisal	3.0	
BUSR	66	Real Estate Appraisal - Case Studies	3.0	
COMP	16	Microcomputer Applications	3.5	CSU,UC
Total Units			29.0	

Recommended Electives:

BUSM	66	Small Business Management
BUSO	25	Business Communications
BUSR	62	Mortgage Loan Brokering and Lending

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

Recreation

PHYSICAL EDUCATION DEPARTMENT

Major 22104

Students who plan to transfer to a four-year college to continue their study in the following major are encouraged to consult the catalog of the institution they plan to enter for specific requirements.

Requirements for the Major

Required courses:

PE	1	Camp Leadership	2.0	CSU
PE	2	The Recreation Program	2.0	CSU
PE	3	First Aid and CPR, or	3.0	CSU,UC
PE	5	Advanced First Aid/CPR/Emergency Response	3.0	CSU
PE	13	Sports Officiating	3.0	CSU,UC
PE	17	Introduction to Physical Education	3.0	CSU,UC
PE	19	Introduction to Care/Prevention of Activity/Sports -Related Injuries	3.0	CSU,UC
PE	20	Recreation and Leisure Services	3.0	CSU
PE	34	Fitness for Living	3.0	CSU,UC

PLUS

Select one (1) course from:

ARTB	14	Introduction to Art Fundamentals	3.0	CSU,UC
PSYC	1A	General Psychology	3.0	CSU,UC
SOC	1	Sociology	3.0	CSU,UC
SOC	15	Child Development	3.0	CSU,UC

PLUS

Select four (4) courses from:

DNCE		DANCE: ACTIVITY	1.0-2.0	CSU,UC
PE-A		PHYSICAL EDUCATION: AQUATICS	0.5-2.0	CSU,UC
PE-F		PHYSICAL EDUCATION: FITNESS	1.0-3.0	CSU,UC
PE-I		PHYSICAL EDUCATION: INDIVIDUAL	0.0-1.0	CSU,UC
PE-L		PHYSICAL EDUCATION: ADAPTIVE	0.5-1.0	CSU,UC
PE-S		PHYSICAL EDUCATION: TEAM SPORTS	0.5-1.0	CSU,UC

Total Units 28.1 - 34.0

Registered Veterinary Technology

AGRICULTURAL SCIENCES DEPARTMENT

Major 20105

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. Students must file an educational plan with the Director of the Registered Veterinary Technology Program during the first year of study.

These programs are intended to prepare students for employment following graduation. Students desiring a Bachelor's Degree (transfer program) should consult with the department chairperson or faculty advisor to file an educational plan and 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.

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 (2) weeks prior to the beginning of the semester in which enrollment shall begin.

Requirements for the Major

Required courses 1st year:

AGAG	91	Agricultural Calculations	3.0	
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	
AGHE	54	Veterinary Office Procedures	2.0	
AGLI	95	Anatomy of Domestic Animals	4.0	CSU
AGLI	96	Animal Sanitation and Disease Control	3.0	CSU
AGLI	98	Physiology of Domestic Animals	2.0	

Required courses 2nd year:

AGHE	60	Medical Nursing and Animal Care	4.0	CSU
AGHE	61	Surgical Nursing	4.0	CSU
AGHE	62A	Clinical Pathology	4.0	CSU
AGHE	62B	Clinical Pathology	4.0	CSU
AGHE	64	Veterinary Pharmacology	3.0	CSU
AGHE	65	Veterinary Radiography	2.0	CSU
AGHE	79	Laboratory Animal Medicine and Care	3.0	CSU
AGHE	84A	Applied Animal Health Procedures, or	1.0	
AGHE	84B	Applied Animal Health Procedures	1.0	
AGHE	85	Seminar in Animal Health Technology	1.0	

PLUS

Select four (4) units from:

AGHE	83A	Work Experience in Animal Health	1.0	
AGHE	83B	Work Experience in Animal Health	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
AGLI	17	Sheep Production	3.0	CSU
AGLI	18	Horse Ranch Management	4.0	CSU
AGLI	19	Horse Hoof Care	2.0	CSU
AGLI	30	Beef Production	3.0	CSU
AGLI	81	Light Horse Management	3.0	
AGPE	70	Pet Shop Management	3.0	
AGPE	71	Canine Management	3.0	
AGPE	72	Feline Management	3.0	
AGPE	73	Tropical and Coldwater Fish Management	2.0	
AGPE	74	Reptile Management	2.0	
AGPE	76	Aviculture - Cage and Aviary Birds	3.0	

Total Units 62.0

Respiratory Therapy

RESPIRATORY THERAPY DEPARTMENT

Major 21205

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 manual dexterity is helpful 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:

ANAT	10A	Introductory Human Anatomy	4.0	CSU,UC
ANAT	10B	Introductory Human Physiology	4.0	CSU,UC
CHEM	2A	Fundamentals of Chemistry	4.0	CSU,UC
MATH	51	Elementary Algebra	4.0	
MEDI	90	Medical Terminology	3.0	CSU
PSYC	1A	General Psychology	3.0	CSU,UC
RESD	50	Theory and Principles of Respiratory Therapy	2.0	CSU
RESD	51A	Respiratory Therapy Science	4.0	CSU
RESD	51B	Respiratory Therapy Science	4.0	CSU
RESD	52	Pulmonary Anatomy and Physiology	2.0	CSU
RESD	53	Cardiopulmonary Pathophysiology	2.0	CSU
RESD	54	Pharmacology for Respiratory Therapy	2.0	CSU
RESD	55	Adult Respiratory Intensive Care	3.0	CSU
RESD	56A-1	Techniques of Respiratory Therapy	5.0	CSU
RESD	56B-1	Techniques of Respiratory Therapy	6.0	CSU
RESD	56C-1	Techniques of Respiratory Therapy	6.0	CSU
RESD	57	Special Procedures for Respiratory Care	2.0	CSU
RESD	58	Neonatal Intensive Care	3.0	CSU
RESD	59	Respiratory Therapeutic Modalities	3.0	CSU
RESD	60	Comprehensive Pulmonary Assessment	2.0	CSU
RESD	61	Current Issues in Respiratory Care	3.0	CSU

Total Units 71.0

Special Information

The completion of the Respiratory Therapy Program and receipt of the Certificate of Completion 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 required courses, the student is granted a Certificate of Completion in Respiratory Therapy. The certificate will permit the student to sit for all National Board for Respiratory Care (NBRC), Incorporated, examinations. The student is reminded, however, that the NBRC has certain prerequisites based on clinical experience that determine in what order the candidate sits for the examination.

Effective July 1, 1985, graduates of the Respiratory Therapy Program who do not hold a valid California license must submit an application to the Respiratory Care Examining Committee for approval and granting of a license in order to work as a Respiratory Care Practitioner within the State of California.

Admission Requirements and Selection Procedures

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:

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.
2. File a college application and be accepted as a student at Mt. San Antonio College.
3. Applicant must take the English and math placement exams before taking any of the prerequisite or respiratory therapy courses.
- * 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 (2) 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

Mt. San Antonio College
Respiratory Therapy
1100 North Grand Avenue
Walnut CA 91789-1389

Mt. San Antonio College
Program Admissions Office
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.
5. The following courses are advisory prerequisites. It is recommended, but not required that these courses be completed prior to starting the program.

COMPLETION OF THESE COURSES IS MANDATORY PRIOR TO GRADUATION FROM THE RESPIRATORY THERAPY PROGRAM.

MATH 51	Elementary Algebra, <i>or</i> equivalent	4 units	CSU, UC
CHEM 2A	Fundamentals of Chemistry, <i>or</i> equivalent	4 units	CSU, UC
MEDI 90	Medical Terminology, <i>or</i> equivalent	3 units	CSU
ANAT 10A	Introductory Human Anatomy, <i>or</i> equivalent	4 units	CSU, UC
ANAT 10B	Introductory Human Physiology, <i>or</i> equivalent	4 units	CSU, UC

It is highly recommended that students complete their general education requirements prior to entering the program. All students who have had course work taken outside of the United States must have their transcript evaluated. Foreign transcripts will not be accepted without the evaluation.

6. An education plan must be submitted by all students entering the program. You must make an appointment with an advisor in the Student Services Center (Bldg. 9B) to go over an education plan.

Foreign Transcripts

All course work taken outside of the United States must be analyzed by a designated agency for Foreign Transcript evaluation. No foreign course work will be accepted without this evaluation. It is the sole responsibility of the applying student to get the evaluation completed before entry into the program. Information for transcript evaluation is available in the Technology and Health Division.

Selection Procedure

Selection of students is based upon the completion of the admission requirements and general education requirements. Upon acceptance into the program you will be invited to attend a Respiratory Therapy Mandatory Orientation. This will be scheduled during the spring semester.

A.S. Degree Requirements

All students entering the Respiratory Therapy Program MUST complete all the major course requirements and the general education requirements (including General Psychology) necessary to complete the Associate Degree before a Certificate of Completion in Respiratory Therapy will be granted. The Certificate will permit the student to sit for all National Board for Respiratory Care (NBRC), Incorporated, examinations.

Other

All students entering the Respiratory Therapy Program are required to complete a General Psychology (PSYC 1A or equivalent) course in order to receive their Certificate of Completion in the Respiratory Therapy Program.

Restaurant/Hospitality Management

FAMILY AND CONSUMER SCIENCES DEPARTMENT

Major 21307

This program provides students with an excellent background for a career in the restaurant/hospitality industry. Students will have the education necessary for many entry-level positions. Students may wish to pursue a Certificate in Hospitality Management, Restaurant/Food Service Management, Catering, Fast Food Service Management, or Food Service. 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 Restaurant/Hospitality Management faculty to discuss transfer options.

Requirements for the Major

Required courses:

NF	20	Principles of Foods With Lab	3.0	CSU
RSTR	51	Introduction to Hospitality	3.0	CSU
RSTR	52	Sanitation and Safety	3.0	CSU
RSTR	54	Commercial Food Preparation	3.0	CSU
RSTR	57	Restaurant Cost Control	3.0	CSU
RSTR	60	Purchasing for the Restaurant Industry	3.0	CSU
RSTR	61	Menu Planning	3.0	CSU
RSTR	64	Hospitality Financial Accounting I	3.0	CSU
RSTR	66	Hospitality Law	3.0	CSU
RSTR	70	Introduction to Lodging	3.0	CSU
RSTR	91	Work Experience in Restaurant/Hospitality	1.0	CSU

PLUS

Select six (6) units from:

RSTR	53	Dining Room Service Management	3.0	CSU
RSTR	55	Hospitality Layout and Design	3.0	CSU
RSTR	56	Restaurant Hospitality Management	3.0	CSU
RSTR	58	Fast Food Service Management, and	2.0	CSU
RSTR	91	Work Experience in Restaurant/Hospitality	1.0	CSU
RSTR	63	Wines and Spirits	3.0	CSU
RSTR	65	Hospitality Financial Accounting II	3.0	CSU

Total Units 37.0

Sign Language/Interpreting

SIGN LANGUAGE DEPARTMENT

Major 20801

Upon completion of this program, the graduate will be functional in sign language and will be able to interpret in a variety of situations. The program provides an overview of the Deaf community, careers working with Deaf people, teaches American Sign Language, offers specific interpreting courses, and includes training in the ethics and practical approaches that must be understood by a practicing interpreter.

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	80	American Sign Language I	4.0	CSU,UC
SIGN	81	American Sign Language II	4.0	CSU,UC
SIGN	82A	American Sign Language III	4.0	CSU,UC
SIGN	82B	American Sign Language IV	4.0	CSU,UC
SIGN	82C	American Sign Language V	4.0	
SIGN	83	Deaf Perspectives	3.0	
SIGN	85	American Deaf Culture	3.0	CSU,UC
SIGN	86	American Sign Language Structure	3.0	CSU,UC
SIGN	87	Translation: American Sign Language/English	3.0	
SIGN	88	Principles of Sign Language Interpreting	3.0	
SIGN	88A	Interpreting	4.0	
SIGN	88B	Advanced Interpreting	4.0	
SIGN	88L	Practicum	1.0	
SPCH	1A	Public Speaking, or	3.0	CSU,UC
SPCH	1AH	Public Speaking - Honors	3.0	CSU,UC

Total Units 47.0

Recommended Electives:

SIGN	89	Finger Spelling
SIGN	92	Oral Interpreting
SIGN	99	Special Projects in Sign Language/Interpreting

The Sign Language/Interpreting faculty recommend that you complement your studies with selected elective courses chosen from the list above. You should meet with a professor of Sign Language/Interpreting 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 "C" or better grade in all courses.

Small Business Management

ACCOUNTING AND MANAGEMENT DEPARTMENT

Major 20508

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

Requirements for the Major

Required courses:

BUSA	7	Principles of Accounting - Financial	5.0	CSU,UC
BUSM	10	Principles of Continuous Quality Improvement	3.0	
BUSM	20	Principles of Business	3.0	CSU,UC
BUSM	60	Human Relations in Business	3.0	CSU
BUSM	61	Business Organization and Management	3.0	CSU
BUSM	62	Human Resource Management	3.0	
BUSM	66	Small Business Management	3.0	
BUSS	36	Principles of Marketing	3.0	CSU
COMP	16	Microcomputer Applications	3.5	CSU,UC

Total Units 29.5

Recommended Electives:

BUSM	81	Work Experience in Business, or
BUSM	82	Work Experience in Business, or
BUSM	83	Work Experience in Business, or
BUSM	84	Work Experience in Business
BUSM	85	Special Issues in Business, or
BUSS	85	Special Issues in Marketing

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

Welding

AIRCRAFT AND INDUSTRIAL TECHNOLOGY DEPARTMENT

Major 20919

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 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 an advisor to discuss transferability of courses.

Requirements for the Major

Required courses:

WELD	40	Introduction to Welding	2.0	CSU
WELD	50	Oxyacetylene Welding	2.0	
WELD	51	Basic Electric Arc Welding	2.0	
WELD	53A	Welding Metallurgy	3.0	CSU
WELD	70A	Beginning Arc Welding	3.0	
WELD	70B	Intermediate Arc Welding	3.0	
WELD	70C	Certification for Welders	3.0	
WELD	80	Fabrication and Construction Welding	3.0	
			Total Units	21.0

Recommended Electives:

BUSM	61	Business Organization and Management
EDT	11	Technical Engineering Drawing I
MFG	70	Technical Mathematics - Industrial Applications
WELD	60	Print Reading and Computations for Welders
WELD	81	Pipe and Tube Welding

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

World Travel Management

AERONAUTICS AND TRANSPORTATION DEPARTMENT

Major 23001

This curriculum prepares students for careers with travel organizations. Positions such as airline reservations agents, customer service, travel agents, sales representatives and other travel categories are available to the student upon graduation.

Requirements for the Major

Required courses:

TRVL	1	Airline Resources and Ticketing	1.5
TRVL	2	Automated PNR Construction	1.5
TRVL	3	Automated Itinerary Enhancements	1.5
TRVL	4	Automated Ticketing	1.5
TRVL	5	Automated Hotel and Car Reservations	1.5
TRVL	6	International Air Reservations, Cruises, and Tours	3.0
TRVL	11	World Travel Destinations	3.0
TRVL	12	Area Studies of North American Travel	3.0
TRVL	13	Area Studies of European Travel	3.0
TRVL	14	Area Studies of Pacific Travel	3.0
TRVL	15	Area Studies of Caribbean & Latin American Travel	3.0
TRVL	16	Tourism	3.0
TRVL	34	Travel Agents' Accounting Procedures	3.0

Total Units 31.5

Special Information

Skills required of travel agents include a variety of communication skills, familiarity with the operation of computers for reservations and ticketing, and a substantial knowledge of world geography and international travel procedures. Travel lab courses provide students an active interface with a current reservation and ticketing program utilized by major airlines. This academic program prepares students for other related job opportunities throughout the travel industry in customer services, sales and travel management.



Disabled Student Programs and Services (DSP&S) tram driver Donald Beaton assists Sharmaine Johnson as she boards the Mt. SAC tram.