WELCOME TO MT. SAN ANTONIO COLLEGE
ANIMAL SCIENCE PROGRAM AND AGRI-TECHNOLOGY PROGRAM

The Animal Science Program at Mt. San Antonio College is one of the largest in California and the most comprehensive in Southern California. The College serves Los Angeles, San Bernardino, Orange and Riverside counties. Located in Los Angeles County, which is one of the largest dollar volume counties, utilizing animal products in the world.

BENEFITS OF ATTENDING MT. SAC
THE ANIMAL SCIENCE PROGRAM

A PRACTICAL APPROACH to Animal Science with hands on experience and interaction with the animal science industry. We utilize the nearby industries for numerous field trips and job placement.

DIVERSE CLASS SCHEDULING allows individuals to maintain employment while studying towards a degree or certificate. Most classes are offered in block mode (meet one or two days per week).

WORK EXPERIENCE PROGRAM earn units of credit while gaining on-the-job experience.

INDIVIDUALIZED AND PERSONALIZED INSTRUCTION with low student-to-teacher ratio.

FULL-TIME AND PART-TIME FACULTY with over 90 years of practical industry experiences.

STUDENTS ASSIST with the production and marketing of animals produced on the 250 acre school farm maintained by the College. Most of the land is used to produce feed for the animals raised by the College.
THE COLLEGE FARM CONSISTS OF:

**BEEF UNIT**  Consists of feed storage buildings, covered pen area, dry lots, natural pasture and irrigated pastures. The College maintains a breeding herd of approximately 20 breeding crossbred females used to breed project animals for our students.

**SHEEP UNIT**  Consists of two barns, a project barn with a shearing area and a lambing barn with pens for holding the ewes and lambs after they exit the jails. We also have a working corral with cutting chutes and sorting pens. We have 30 acres of pasture for our flock of 45 ewes, Suffolk and Hampshire’s, and two stud rams. Lambs are raised and sold through a club lamb sale that is put on by the student. The lambs go to 4-H and F.F.A. students where many champions have been purchased for the flock.

**SWINE UNIT**  A modern confinement Swine Unit with a farrow to finish program. The College maintains several sows and a boar for students to gain experience in swine production.

**HORSE UNIT**  Consists of an eight stall barn with two foaling stalls and a stallion barn and paddock with plenty of paddocks for young horses. Training facilities include a bull pen, goose neck arena, hot walker and plenty of trails to ride on. An Artificial Insemination Lab is housed in the barn. There are eight broodmares and a stallion on campus along with numerous offspring for students to work with to get experience.
COURSE OFFERINGS

Courses are offered which lead to an Associate in Science Degree in Animal Science with specialization in Livestock Management, Horse Ranch Management, Pet Science and Agri-Technology.

In addition, certificates are offered in Livestock Management, Horse Ranch Management and Pet Science.
CAREER OPTIONS IN ANIMAL SCIENCE:

Note: Job titles in all caps are from the "targeted occupations" list. Also, some jobs may require local and/or state certification, licensing, or advanced degrees.

Agricultural Product Inspector
Animal Breeder
Animal Control Officer
Animal Health Products Warehouse Person
Animal Nursery Worker
Animal Research Scientist
Animal Shelter Attendant
Animal Shelter Clerk
Announcer/Ringmaster/Ring Steward
ARTIFICIAL INSEMINATION TECHNICIAN
AUCTION YARD MANAGER/MARKETER
AUCTION YARD WORKER
Auctioneer
Beef Cattle Improvement Association Bull Test Manager
Beef Ranch Herdsperson/Manager
Beef Ranch Owner/Operator
Beef Scientist
Boarding Stable Manager
Bookkeeper
Brand Inspector
Breed Association Field Representative
College Professor
Commodity Grader (including meat, poultry, dairy, wool)
Computer Operator/Analyst
Dairy Calf Feeder
Dairy Cow Feeder
Dairy Equipment Repair Person
Dairy Farm Herdsperson/Manager
Dairy Inspector
Dairy Scientist
Dairy/Milk Processor
Embryo Transplant Technician
Equitation Instructor
Fair Manager
Farm Accountant
FARM ADVISOR/CONSULTANT
FARRIER (Horse Shoer)
Federal Meat Grader
Federal Meat Inspector
FEED BATCH PROGRAMMER
Feed Field Person
Feed Lot Crew Foreperson
FEED MILL OPERATOR/MANAGER
Feed Salesperson/Representative
CAREER OPTIONS IN ANIMAL SCIENCE (continued)

Feed Store Clerk
Feed Analysis Technician
Feedlot Manager
FIELD REPRESENTATIVE
Financial Loan Officer
Fish Farmer
Game Bird Farmer
GENERAL MANAGER
Geneticist
Government Agriculture Agency: Administrator/Manager/Supervisor
HERDSPERSON/FOREPERSON
Horse Agent/Trader
HORSE BREEDING FARM MANAGER
Horse Ranch Manager
Horse Ranch Owner/Operator
Horse Scientist
Horse Stable Attendant
Horse Stable Manager
Horse Trainer
Insurance Agent
Kennel Manager
Livestock Advertiser
Livestock Appraiser
Livestock Buyer/Broker
Livestock Consultant/Analyst
Livestock Equipment Manufacturer Sales Representative
Livestock Groomer/Fitter
Livestock Journalist
Livestock Marketing Agent
Livestock Ranch Tenant
Livestock Transportation Owner
Livestock/Poultry Researcher
Meat Cutter (Retail)
Meat Inspector/Grader
Meat Marketing (Wholesale)
Milk Tester
NUTRITIONIST
Pet Store Jobs
Pharmaceutical Sales Representative
PHONE SALESPEerson/TELEMARKETER
Range Management Specialist
Range Manager
SALESPEerson, LIVESTOCK SUPPLIES
SALESPEerson, SEMEN
Semen Collector
Sheep Ranch Herdsperson/Manager
Sheep Ranch Owner/Operator
Sheep Scientist
SHEPHERD
Slaughter House Manager
State Dairy Analyst
CAREER OPTIONS IN ANIMAL SCIENCE (continued)
Swine Farm Herdperson/Manager
Swine Farm Owner/Operator
Swine Scientist
TEACHER, ANIMAL SCIENCE
USDA Animal Health Inspector
USDA Meat Inspector
WAREHOUSE SUPERVISOR
Weigh Master/Clerk
ASSOCIATE IN SCIENCE DEGREE MAJORS IN
AGRI-TECHNOLOGY (20101)

The major in Agri-Technology is primarily for those people who want to follow a career path in teaching at the high school level in agriculture. The program will prepare students to transfer to Cal Poly Pomona, Cal Poly SLO, Chico State or Fresno State to complete their studies.

❖ Requirements for the Major:

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

PLUS
Select three (3) courses from the following:

- AGFR 20 Conservation of Natural Resources
- AGLI 14 Swine Production
- AGLI 16 Horse Production
- AGLI 17 Sheep Production
- AGLI 30 Beef Production
- AGOR 12 Environmental Vegetable Gardening
- AGOR 24 Integrated Pest Management
- AGOR 62 Landscape Irrigation Design and Installation
- AGPE 70 Pet Shop Management
- AGPE 71 Canine Management
ASSOCIATE IN SCIENCE DEGREE MAJORS IN LIVESTOCK MANAGEMENT (20103)

Requirements for the Major:

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

PLUS
Select six [6] units from the following:

AGOR 53 Small Engine Repair 1
AGOR 71 Landscape Construction Fundamentals
BUSM 20 Principles of Business
BUSM 66 Small Business Management
BUSS 35 Professional Selling
BUSS 36 Principles of Marketing
CERTIFICATES OFFERED IN LIVESTOCK MANAGEMENT (60103)

This certificate program is designed to give students basic skills in livestock management for employment opportunities on farms, ranches, and agriculture sales and services. All courses are applicable for degree requirements.

❖ Requirements for the Certificate:

- AGAB 20 Microcomputer Applications in Agriculture
- AGAG 1 Food, Land Use and Politics—A Global Perspective
- AGAG 91 Agricultural Calculations
- AGAN 1 Animal Science
- AGAN 2 Animal Nutrition
- AGAN 94 Animal Breeding
- AGLI 14 Swine Production
- AGLI 16 Horse Production
- AGLI 17 Sheep Production
- AGLI 30 Beef Production
- AGLI 34 Livestock Judging and Selection
- AGLI 96 Animal Sanitation and Disease Control

PLUS
Select six [6] units from the following:

- AGOR 71 Landscape Construction Fundamentals
- BUSM 20 Principles of Business
- BUSM 66 Small Business Management
- BUSS 35 Professional Selling
- BUSS 36 Principles of Marketing
ASSOCIATE IN SCIENCE DEGREE MAJORS IN
HORSE RANCH MANAGEMENT (20102)

Requirements for the Major:

AGAB 20  Microcomputer Applications in Agriculture
AGAG 59 or 60 or
   61 or 62  Work Experience in Agriculture
AGAN 2  Animal Nutrition
AGAN 94  Animal Breeding
AGLI 16  Horse Production or
AGLI 81  Light Horse Management
AGLI 18  Horse Ranch Management
AGLI 19  Horse Hoof Care
AGLI 20  Horse Behavior and Training
AGLI 96  Animal Sanitation and Disease Control
AGLI 97  Artificial Insemination of Livestock

PLUS
Select six [6] units from the following:

AGHE 84A  Applied Animal Health Procedures
AGOR 53  Small Engine Repair 1
AGOR 71  Landscape Construction Fundamentals
BUSM 20  Principles of Business
BUSM 66  Small Business Management

CERTIFICATES OFFERED IN HORSE RANCH MANAGEMENT (60102)

This certificate program is designed to give students basic skills on horse ranches and agriculture sales and services. All courses are applicable for degree requirements.

Requirements for the Certificate:

AGAB 20  Microcomputer Applications in Agriculture
AGAG 59 or 60 or
   61 or 62  Work Experience in Agriculture
AGAN 2  Animal Nutrition
AGAN 94  Animal Breeding
AGLI 16  Horse Production or
AGLI 18  Horse Ranch Management
AGLI 19  Horse Hoof Care
AGLI 96  Animal Sanitation and Disease Control
AGLI 97  Artificial Insemination of Livestock
ASSOCIATE IN SCIENCE DEGREE MAJORS IN PET SCIENCE (20104)

✿ Requirements for the Major:

AGAB 20  Microcomputer Applications in Agriculture
AGAN  1  Animal Science
AGAN  2  Animal Nutrition
AGAN 51  Animal Handling and Restraint
AGAN 94  Animal Breeding
AGLI 96  Animal Sanitation and Disease Control
AGPE 70  Pet Shop Management
AGPE 71  Canine Management
AGPE 72  Feline Management
AGPE 73  Tropical and Cold Water Fish Management
AGPE 74  Reptile Management
AGPE 76  Aviculture: Cage and Aviary Birds

CERTIFICATES OFFERED IN PET SCIENCE (60104)

This certificate program is designed to give students basic skills in production and marketing of pets at the wholesale and retail level. All courses are applicable for degree requirements.

✿ Requirements for the Certificate:

AGAB 20  Microcomputer Applications in Agriculture
AGAN  1  Animal Science
AGAN  2  Animal Nutrition
AGAN 51  Animal Handling and Restraint
AGAN 94  Animal Breeding
AGLI 96  Animal Sanitation and Disease Control
AGPE 70  Pet Shop Management
AGPE 71  Canine Management
AGPE 72  Feline Management
AGPE 73  Tropical and Cold Water Fish Management
AGPE 76  Aviculture: Cage and Aviary Birds
BUSM 66  Small Business Management
AGRICULTURE: AGRI-BUSINESS

AGAB 20—MICROCOMPUTER APPLICATIONS IN AGRICULTURE 3 UNITS
54 hours lecture
Degree Appropriate, CSU, UC

Advisory Prerequisite: Eligibility for ENGL 68.

Use of word processing, data base, spreadsheets, and graphic programs for students interested in agricultural business, nursery and landscape, equipment, and farm management.

AGRICULTURE: GENERAL SUBJECTS

AGAG 1—FOOD PRODUCTION, LAND USE AND POLITICS - A GLOBAL PERSPECTIVE 3 UNITS
54 hours lecture.
Degree Appropriate, CSU, UC

Surveys the world's food producing systems in terms of economic, political and cultural forces. Emphasizes ethical, sustainable food producing agriculture.

AGAG 59, 60, 61, 62—WORK EXPERIENCE IN AGRICULTURE 1-4 UNITS
Degree Appropriate

(May be taken four times for credit.)
(May be taken for Credit/No Credit only.)

Prerequisite: Compliance with Work Experience regulations as designated in the College Catalog.

This course is designed to provide majors with actual on-the-job experience in an approved work station which is related to classroom instruction. A minimum of five hours per week of supervised work (minimum 75 paid clock hours or 60 non-paid clock hours per semester) is required for each one unit of credit.

AGAG 91—AGRICULTURAL CALCULATIONS 3 UNITS
54 hours lecture.
Degree Appropriate

Prerequisite: Eligibility for MATH 51.

Calculating the proper rates of application of veterinary drugs, fertilizers, irrigation water, farm chemicals and pesticidal materials. Practical field work in calibrating application equipment, plotting production rates and feed conversion, determining proper concentrations and dilutions, and standardizing butterfat and solids non-fat.

AGRICULTURE: ANIMAL SCIENCE - GENERAL

AGAN 1—ANIMAL SCIENCE 3 UNITS
54 hours lecture.
Degree Appropriate, CSU, UC

Fundamental problems and essential concepts of animal production. Includes a study of the types of domestic animals and their utilization by humans.

AGAN 2—ANIMAL NUTRITION 3 UNITS
54 hours lecture.
Degree Appropriate, CSU

Composition of feeds and their utilization by domestic animals, including digestive physiology, animal assessment, feed appraisal and compiling of rations.

AGAN 51—ANIMAL HANDLING AND RESTRAINT 3 UNITS
36 hours lecture, 54 hours lab.
Degree Appropriate, CSU
This course will cover the methods of properly handling large and small animals and will include chemical and physical techniques of restraint.

**AGAN 94—ANIMAL BREEDING**

54 hours lecture.  
3 UNITS  
Degree Appropriate

The science of animal breeding, including fundamentals of inheritance, reproduction, and breeding systems for domestic animals. Artificial insemination, embryo manipulation and current topics in reproductive biotechnology will also be included.

**AGRICULTURE: FORESTRY, CONSERVATION**

**AGFR 20—CONSERVATION OF NATURAL RESOURCES**

54 hours lecture.  
3 UNITS  
Degree Appropriate, CSU, UC

Prerequisite: Eligibility for ENGL 68.

Natural resources and their conservation. The effects of man on the natural conditions and resources. History and present day conservation agencies and laws affecting conservation of natural resources.

**AGRICULTURE: ANIMAL HEALTH TECHNOLOGY**

**AGHE 84A and B—APPLIED ANIMAL HEALTH PROCEDURES**

1 UNIT  
54 hours lab.  
Degree Appropriate

Fall or spring field study course in the collection, handling, and analysis of feces, urine, and blood samples of pet and domestic animals. Practical experience in applied clinical procedures and techniques, including treatments and minor surgical procedures with school domestic farm animals. Experiences with animals will vary due to seasonal changes and different husbandry practices between Fall and Spring semesters.

**LIVESTOCK PRODUCTION**

**AGLI 12—EXOTIC ANIMAL MANAGEMENT**

54 hours lectures.  
3 UNITS  
Degree Appropriate

Care and management of exotic and alternative livestock species with emphasis on identification, health maintenance, handling techniques, nutrition and reproduction. Includes analysis of industry trends and principal marketing uses of exotic animals.

**AGLI 14—SWINE PRODUCTION**

Spring Semester  
36 hours lecture, 54 hours lab.  
3 UNITS  
Degree Appropriate, CSU

A study of the various types of swine enterprise and the ways and means of entering them. Includes work in all major areas of swine management including handling, feeding, breeding, farrowing, butchering and marketing. Practical skills are taught by the use of college farm. Required of all animal husbandry majors.

**AGLI 16—HORSE PRODUCTION**

Fall Semester  
54 hours lecture, 54 hours lab.  
4 UNITS  
Degree Appropriate, CSU, UC

Selection, utilization, and management of the light horse emphasizing recreational aspects of the modern horse. Laboratory work includes experience in the care of horse and tack.

**AGLI 17—SHEEP PRODUCTION**

Spring Semester  
36 hours lecture, 54 hours lab.  
3 UNITS  
Degree Appropriate, CSU

A study of the various types of sheep enterprises and the ways and means of entering them. Includes class, laboratory and project work concerning all phases of sheep management, sheep handling, feeding, shearing, breeding, lambing and marketing. Practical skills taught on the school farm and sheep farms in the area. Required of all animal husbandry majors.
AGLI 18—HORSE RANCH MANAGEMENT
54 hours lecture, 54 hours lab.
Degree Appropriate, CSU

Advisory prerequisite: AGLI 16

Skills and knowledge to work on or manage a modern equine ranch, including management of the breeding farm, farm lay out, estrous cycles, breeding problems and stallion care.

AGLI 19—HORSE HOOF CARE
18 hours lecture, 54 hours lab.
Degree Appropriate, CSU

Emphasizes proper horse hoof care; shoeing, trimming and disease recognition and control.

AGLI 20—HORSE BEHAVIOR AND TRAINING
18 hours lecture, 54 hours lab.
Degree Appropriate

Co requisite: AGLI 16 or AGLI 18 (may have been taken previously) or equivalent experience with horses.

Breaking and starting young horses. Concentrates on halter training of foals, ground work on yearlings, and green breaking two-year olds and up. Includes lunging techniques, driving, and breaking to a saddle. Training in collection, turning, backing, leads, and trailer loading.

AGLI 30—BEEF PRODUCTION
Fall Semester
36 hours lecture, 54 hours lab.
Degree Appropriate, CSU

Principles and practices in the selection and management of feeder, market and breeding beef cattle. Economics of production, utilization of farm-grown feeds and feedlot operations will be stressed.

AGLI 34—LIVESTOCK JUDGING AND SELECTION
18 hours lecture, 54 hours lab.
Degree Appropriate, CSU, UC

A study of the form and appearance of farm animals as they relate to their function. Laboratory section includes judging of livestock.

AGLI 96—ANIMAL SANITATION AND DISEASE CONTROL
54 hours lecture.
Degree Appropriate, CSU

Prevention and control of infectious diseases affecting domestic animals, including basic disease concepts, transmission of infectious diseases, principles of sanitation, and the fundamentals of immunology.

AGLI 97—ARTIFICIAL INSEMINATION OF LIVESTOCK
Spring Semester
18 hours lecture, 54 hours lab.
Degree Appropriate

Theory and application of artificial insemination of livestock, including semen evaluation and processing. Pregnancy diagnosis will be covered as an aid to the inseminator.

AGRICULTURE: ORNAMENTAL HORTICULTURE

AGOR 1—HORTICULTURAL SCIENCE
54 hours lecture.
Degree Appropriate, CSU

The basic horticulture skills and techniques for use in gardening, nursery and landscape applications. Emphasis on propagation, cultural practices and the study of plant relationships, structure, growth and development.
AGOR 24—INTEGRATED PEST MANAGEMENT 3 UNITS
36 hours lecture, 54 hours lab.
Degree Appropriate, CSU

Identifies common agricultural pests in Southern California and analyzes physical, biological and chemical pest control principles and practices. Stresses use, safety, equipment, laws and regulations of pesticides.

AGOR 32—LANDSCAPING AND NURSERY MANAGEMENT 3 UNITS
Fall Semester
36 hours lecture, 54 hours lab.
Degree Appropriate, CSU

Operation and management of wholesale and retail nurseries. Includes site location and layout of areas; greenhouse management; soil mixes and proper use of fertilizers, insecticides, fungicides, herbicides, and growth regulators; irrigation; mechanization; financing; personnel management, retail displays, advertising, and customer relationships; federal, state and local laws and regulations. Field trips are included.

AGOR 53—SMALL ENGINE REPAIR I 3 UNITS
36 hours lecture, 54 hours lab.
Degree Appropriate, CSU
(May be taken for option of letter grade or Credit/No Credit.)

Principles and repair of small engines used in landscape, industrial and agricultural applications. Includes repairs of lawnmowers, chainsaws, 2-cycle engine, 4-cycle engine, spraying equipment, all-terrain vehicles, and other related gas powered equipment.

AGOR 62—LANDSCAPE IRRIGATION - DESIGN AND INSTALLATION 3 UNITS
36 hours lecture, 54 hours lab.
Degree Appropriate, CSU
(May be taken for option of letter grade or Credit/No Credit.)

Design and application of turf and ornamental irrigation systems. Design techniques, sprinkler system components and hydraulic principles used in nursery management, interior design, residential and commercial landscaping. Special emphasis is given to water conservation incorporating controlled flow technologies.

AGOR 71—LANDSCAPE CONSTRUCTION FUNDAMENTALS 3 UNITS
36 hours lecture, 54 hours lab.
Degree Appropriate, CSU
(May be taken for option of letter grade or Credit/No Credit.)

Advisory Prerequisite: Eligibility for ENGL 68.

Fundamentals of construction techniques and tools used in landscaping. Students will gain skills in construction projects that include utilities (gas, water, electricity), woodworking, masonry, and surveying techniques as applied to landscaping.

AGRICULTURE: PET SCIENCE

AGPE 70—PET SHOP MANAGEMENT 3 UNITS
Fall Semester
54 hours lecture.
Degree Appropriate

A study of the pet industry, pet shop operations and the economic aspects of the retail/wholesale pet business. Includes topics related to the organization and operation of pet shops, animal husbandry practices for species commonly sold in the industry, and sound business management skills.

AGPE 71—CANINE MANAGEMENT 3 UNITS
36 hours lecture, 54 hours lab.
Degree Appropriate

Selection, feeding, housing, breeding and management of dogs, including commercial aspects of the dog as a domestic pet. Laboratory work will include practical experience in the handling, training and grooming of dogs.

AGPE 72—FELINE MANAGEMENT 3 UNITS
Spring Semester
Degree Appropriate
AGPE 73 — TROPICAL AND COLDWATER FISH MANAGEMENT
Fall Semester
36 hours lecture (9 week course)

Advisory Prerequisite: Eligibility for ENGL 68.

Covers the care and keeping of marine and freshwater aquarium fishes, plants, and invertebrates. Includes guidance on setting up aquariums, choosing compatible species, feeding, health care, breeding and raising fish.

AGPE 74 — REPTILE MANAGEMENT
Fall Semester
36 hours lecture (9 week course)

Advisory Prerequisite: Eligibility for ENGL 68.

Covers the care and keeping of reptiles, including snakes, lizards, turtles, tortoises, newts, salamanders, and frogs. Includes identification and characteristics of reptiles commonly kept as pets. Guidance regarding the housing, feeding, health maintenance, breeding, and raising of reptiles will be offered.

AGPE 76 — AVICULTURE - CAGE AND AVIARY BIRDS
Spring Semester
54 hours lecture.

A study of cage and aviary birds which are marketed in the wholesale and retail pet trade including identification, nutrition, breeding, disease prevention and control, aviary construction and providing the proper environment. The course will include information on psittacines, soft bills, finches, game birds and ornamental waterfowl.

BUSINESS: MANAGEMENT

BUSM 20 — PRINCIPLES OF BUSINESS
54 hours lecture.

Prerequisite: Eligibility for ENGL 68

Study of business and its functions, background, development, organization, and opportunities. Business terms, current trends, methods, contemporary and future problems, and current business practices are covered.

BUSM 66 — SMALL BUSINESS MANAGEMENT
54 hours lecture.

Practical problems encountered in organizing and operating a small business enterprise. Included are units in initiating the business, financial and administrative control, legal and government relationships and other related considerations.
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 2004/2005 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 Advisement Center regarding the most current information regarding general education requirements. Agriculture faculty members should be contacted regarding transfer and program questions.

**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:

1. AGAG 91 Agricultural Calculations, or
   ELMA 65B Mathematics of Electronics, or
   MATH 51 Elementary Algebra, or
   MATH 51A Elementary Algebra – 1st half and
   MATH 51B Elementary Algebra – 2nd half, or
   MATH 52 Algebra with Applications 1 and
   MATH 72 Algebra with Applications 2, or
   MATH 59 Fundamentals of Applied Mathematics

2. Completing a more advanced college level mathematics course with a grade of “C” or better.

3. Obtaining a satisfactory score on the 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 31st for Spring and Summer graduation and on or about October 31st 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 multiple Associate degrees. Each additional Associate degree requires 18 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 in the last semester or (2) forty-five (45) units in residence, if the last semester is not at Mt. San Antonio College.

**GPA Requirement**

A Mt. San Antonio College degree total grade point average and all college total grade point average of 2.0.

**Physical Well-Being Requirement**

Complete at least one of the physical education activity courses with the following prefixes: DNCE, PE-A, PE-F, PE-I, PE-L, PE-S, PE-X.

**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 inter-relationships;
• the psychological, social and physiological dimensions of men and women as individuals and as members of society.

Criteria for inclusion in each of the above categories are itemized below:

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

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 2004-2005

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
- 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
- METO 3L Weather and the Atmospheric Environment - Laboratory
- 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 Laboratory
- 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
Life Sciences (continued)

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

AR 1    Understanding the Visual Arts
AR 1H   Understanding the Visual Arts – Honors
AR 2    Topics in Visual Art and Culture
AR 2H   Topics in Visual Art and Culture – Honors
AR 3    Survey of Women and Gender in Art
AR 3H   Survey of Women and Gender in Art - Honors
AR 4    History of Western Art: Prehistoric Through Gothic
AR 4H   History of Western Art: Prehistoric Through Gothic – Honors
AR 5    History of Western Art: Renaissance Through Modern
AR 5H   History of Western Art: Renaissance Through Modern – Honors
AR 6    History of Modern Art
AR 6H   History of Modern Art - Honors
AR 9    Asian Art
AR 11   Arts of Africa, Oceania, and Native America
AR 12   Pre-Columbian Art of the Americas
AR 12H  Pre-Columbian Art of the Americas - Honors
ART 14  Introduction to Art Fundamentals
ART 15A Drawing: Beginning
ART 20  Design: Two Dimensional
ART 22  Design: Three Dimensional
ARTD 25A Painting: Beginning
ARTS 30A Ceramics: Beginning
ARTS 40A Sculpture: Beginning
DN-T 20 History and Appreciation of Dance
ID 180  History of Interior Architecture and Furnishings 1
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 1
## Humanities

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
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<tr>
<td>CHIN 2</td>
<td>Elementary Chinese</td>
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<td>CHIN 3</td>
<td>Intermediate Chinese</td>
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<tr>
<td>CHIN 4</td>
<td>Intermediate Chinese</td>
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<td>ENGL 1B</td>
<td>English – Introduction to Literary Types</td>
</tr>
<tr>
<td>ENGL 1BH</td>
<td>English – Introduction to Literary Types – Honors</td>
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<tr>
<td>FRCH 1</td>
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<td>FRCH 3</td>
<td>Intermediate French</td>
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<td>FRCH 60</td>
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<td>Elementary German</td>
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<td>GERM 2</td>
<td>Elementary German</td>
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<td>Intermediate German</td>
</tr>
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<td>GERM 4</td>
<td>Intermediate German</td>
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<td>*HIST 1</td>
<td>History of the U.S.</td>
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<td>*HIST 3</td>
<td>History of World Civilization</td>
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<tr>
<td>*HIST 3H</td>
<td>History of World Civilization – Honors</td>
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<td>*HIST 4H</td>
<td>History of World Civilization – Honors</td>
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<td>History of the U.S.</td>
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<td>History of the U.S. – Honors</td>
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<tr>
<td>*HIST 8H</td>
<td>History of the U.S. – Honors</td>
</tr>
<tr>
<td>*HIST 10</td>
<td>History of Asia</td>
</tr>
<tr>
<td>*HIST 11</td>
<td>History of Asia</td>
</tr>
<tr>
<td>*HIST 19</td>
<td>History of Mexico</td>
</tr>
<tr>
<td>*HIST 30</td>
<td>History of the African American</td>
</tr>
<tr>
<td>*HIST 31</td>
<td>History of the African American</td>
</tr>
<tr>
<td>*HIST 35</td>
<td>History of Africa</td>
</tr>
<tr>
<td>*HIST 36</td>
<td>Women in American History – Beyond the Stereotypes</td>
</tr>
<tr>
<td>*HIST 39</td>
<td>California History</td>
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<td>*HIST 40</td>
<td>History of the Mexican American</td>
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<td>HUMA 1</td>
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<td>ITAL 60</td>
<td>Italian Culture Through Cinema</td>
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<td>Elementary Japanese</td>
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<tr>
<td>JAPN 2</td>
<td>Elementary Japanese</td>
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<tr>
<td>JAPN 3</td>
<td>Intermediate Japanese</td>
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<tr>
<td>JAPN 4</td>
<td>Intermediate Japanese</td>
</tr>
<tr>
<td>JAPN 5</td>
<td>Advanced Japanese</td>
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<td>Early American Literature</td>
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<td>LIT 2</td>
<td>Modern American Literature</td>
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<tr>
<td>LIT 6A</td>
<td>Survey of English Literature</td>
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<tr>
<td>LIT 6B</td>
<td>Survey of English Literature</td>
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<td>LIT 11A</td>
<td>World Literature</td>
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<td>LIT 11B</td>
<td>World Literature</td>
</tr>
<tr>
<td>LIT 14</td>
<td>Introduction to Modern Poetry</td>
</tr>
<tr>
<td>LIT 15</td>
<td>Introduction to Cinema</td>
</tr>
<tr>
<td>LIT 20</td>
<td>African American Literature</td>
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<td>LIT 25</td>
<td>Contemporary Mexican American Literature</td>
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<td>LIT 33</td>
<td>Images of Women in Literature</td>
</tr>
<tr>
<td>LIT 35</td>
<td>Science Fiction and Fantasy Survey</td>
</tr>
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<td>LIT 36</td>
<td>Introduction to Mythology</td>
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<td>LIT 40</td>
<td>Children's Literature</td>
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**Humanities (continued)**

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<td>The Bible as Literature: Old Testament</td>
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<tr>
<td>LIT 47</td>
<td>The Bible as Literature: New Testament</td>
</tr>
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<td>PHIL 5</td>
<td>Introduction to Philosophy</td>
</tr>
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<td>PHIL 5H</td>
<td>Introduction to Philosophy – Honors</td>
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<tr>
<td>PHIL 12</td>
<td>Ethics</td>
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<tr>
<td>PHIL 12H</td>
<td>Ethics – Honors</td>
</tr>
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<td>PHIL 15</td>
<td>Major World Religions</td>
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<tr>
<td>PHIL 15H</td>
<td>Major World Religions – Honors</td>
</tr>
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<td>PHIL 20A</td>
<td>History of Western Philosophy</td>
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<td>PHIL 20B</td>
<td>History of Western Philosophy</td>
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<td>SIGN 80</td>
<td>American Sign Language I</td>
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<td>SIGN 85</td>
<td>American Deaf Culture</td>
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<td>SPAN 1</td>
<td>Elementary Spanish</td>
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<td>SPAN 1H</td>
<td>Elementary Spanish – Honors</td>
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<td>SPAN 2</td>
<td>Elementary Spanish</td>
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<tr>
<td>SPAN 2H</td>
<td>Elementary Spanish - Honors</td>
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<td>SPAN 3H</td>
<td>Intermediate Spanish – Honors</td>
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<td>SPAN 11</td>
<td>Spanish for the Spanish Speaking</td>
</tr>
<tr>
<td>SPAN 12</td>
<td>Spanish for the Spanish Speaking</td>
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</tbody>
</table>

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

**AREA D:**

**Social, Political and Economic Institutions (6 units):**

**U.S. History and American Institutions**

*Select one (1) course from the following:*

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>*HIST 1</td>
<td>History of the U.S.</td>
</tr>
<tr>
<td>*HIST 7</td>
<td>History of the U.S.</td>
</tr>
<tr>
<td>*HIST 7H</td>
<td>History of the U.S. – Honors</td>
</tr>
<tr>
<td>*HIST 8</td>
<td>History of the U.S.</td>
</tr>
<tr>
<td>*HIST 8H</td>
<td>History of the U.S. – Honors</td>
</tr>
<tr>
<td>*HIST 30</td>
<td>History of the African American</td>
</tr>
<tr>
<td>*HIST 31</td>
<td>History of the African American</td>
</tr>
<tr>
<td>*HIST 36</td>
<td>Women in American History – Beyond the Stereotypes</td>
</tr>
<tr>
<td>*HIST 40</td>
<td>History of the Mexican American</td>
</tr>
<tr>
<td>POLI 1</td>
<td>Political Science</td>
</tr>
<tr>
<td>POLI 1H</td>
<td>Political Science – Honors</td>
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<tr>
<td>POLI 25</td>
<td>Politics of the Mexican American</td>
</tr>
<tr>
<td>POLI 35</td>
<td>African American Politics</td>
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</table>
Elective Courses – select at least one (1) course from the following list (3 units):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>AGAG 1</td>
<td>Food Production, Land Use and Politics – A Global Perspective</td>
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<td>AGFR 20</td>
<td>Conservation of Natural Resources</td>
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<td>ANTH 3</td>
<td>Archaeology</td>
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<td>ANTH 5</td>
<td>Principles of Cultural Anthropology</td>
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<td>ANTH 22</td>
<td>General Cultural Anthropology</td>
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<tr>
<td>ANTH 30</td>
<td>The Native American</td>
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<td>BUSC 1A</td>
<td>Principles of Economics – Macroeconomics</td>
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<td>Principles of Economics – Macroeconomics – Honors</td>
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<tr>
<td>BUSC 1B</td>
<td>Principles of Economics – Microeconomics</td>
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<tr>
<td>BUSC 1BH</td>
<td>Principles of Economics – Microeconomics – Honors</td>
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<tr>
<td>CHLD 1</td>
<td>Child, Family, and Community</td>
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<td>CHLD 10</td>
<td>Child Growth and Development</td>
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<tr>
<td>CHLD 10H</td>
<td>Child Growth and Development – Honors</td>
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Elective Courses (continued)

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<th>Course Title</th>
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<tr>
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<td>GEOG 5</td>
<td>World Regional Geography</td>
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<td>GEOG 30</td>
<td>Geography of California</td>
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<tr>
<td>*HIST 3</td>
<td>History of World Civilization</td>
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<td>*HIST 3H</td>
<td>History of World Civilization – Honors</td>
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<tr>
<td>*HIST 4</td>
<td>History of World Civilization</td>
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<tr>
<td>*HIST 4H</td>
<td>History of World Civilization – Honors</td>
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<tr>
<td>*HIST 10</td>
<td>History of Asia</td>
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<td>History of Asia</td>
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<tr>
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<td>History of Mexico</td>
</tr>
<tr>
<td>*HIST 35</td>
<td>History of Africa</td>
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<td>*HIST 39</td>
<td>California History</td>
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<td>JOUR 2</td>
<td>Mass Media and Society</td>
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<td>POLI 2</td>
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<td>POLI 9</td>
<td>Introduction to International Relations</td>
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<td>PSYC 1AH</td>
<td>Introduction to Psychology – Honors</td>
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<td>*PSYC 25</td>
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<td>Sociology – Honors</td>
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<tr>
<td>SOC 5</td>
<td>Introduction to Criminology</td>
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<tr>
<td>SOC 14</td>
<td>Marriage and the Family</td>
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<tr>
<td>SOC 15</td>
<td>Child Development</td>
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<tr>
<td>SOC 20</td>
<td>Sociology of Ethnic Relations</td>
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AREA E:

Lifelong Understanding and Self-Development (3 units):

Select one (1) course from the following:

<table>
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<th>Course Title</th>
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<tbody>
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<td>BIOL 13</td>
<td>Human Reproduction, Development and Aging</td>
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<td>BIOL 15</td>
<td>Human Sexuality</td>
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<td>Human Sexuality – Honors</td>
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<td>Career/Life Planning</td>
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<td>FCS 41</td>
<td>Life Management</td>
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<td>NF 10</td>
<td>Nutrition for Personal Health and Wellness</td>
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<td>NF 25</td>
<td>Essentials of Nutrition</td>
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<td>NF 25H</td>
<td>Essentials of Nutrition – Honors</td>
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<tr>
<td>NF 28</td>
<td>Cultural and Ethnic Foods</td>
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<td>PE 34</td>
<td>Fitness for Living</td>
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<tr>
<td>PSYC 14</td>
<td>Developmental Psychology</td>
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<td>*PSYC 25</td>
<td>The Psychology of Women</td>
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<td>PSYC 26</td>
<td>Psychology of Sexuality</td>
</tr>
<tr>
<td>PSYC 33</td>
<td>Psychology for Effective Living</td>
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