

# Handbook

## Animal Science



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## **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.**

## **FACILITIES**

**Small Animal Facilities  
Classrooms**

### **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 Herdperson/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 Herdperson/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 SALESPERSON/TELEMARKETER**  
**Range Management Specialist**  
**Range Manager**  
**SALESPERSON, LIVESTOCK SUPPLIES**  
**SALESPERSON, SEMEN**  
**Semen Collector**  
**Sheep Ranch Herdperson/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:**

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

### **PLUS**

Select three (3) courses from the following:

|                |   |
|----------------|---|
| <b>AGFR 20</b> | <b>Conservation of Natural Resources</b>            |
| <b>AGLI 14</b> | <b>Swine Production</b>                             |
| <b>AGLI 16</b> | <b>Horse Production</b>                             |
| <b>AGLI 17</b> | <b>Sheep Production</b>                             |
| <b>AGLI 30</b> | <b>Beef Production</b>                              |
| <b>AGOR 12</b> | <b>Environmental Vegetable Gardening</b>            |
| <b>AGOR 24</b> | <b>Integrated Pest Management</b>                   |
| <b>AGOR 62</b> | <b>Landscape Irrigation Design and Installation</b> |
| <b>AGPE 70</b> | <b>Pet Shop Management</b>                          |
| <b>AGPE 71</b> | <b>Canine Management</b>                            |

## **ASSOCIATE IN SCIENCE DEGREE MAJORS IN LIVESTOCK MANAGEMENT (20103)**

**❖ Requirements for the Major:**

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

**PLUS**

**Select six [6] units from the following:**

|                |  |
|----------------|--|
| <b>AGOR 53</b> | <b>Small Engine Repair 1</b>               |
| <b>AGOR 71</b> | <b>Landscape Construction Fundamentals</b> |
| <b>BUSM 20</b> | <b>Principles of Business</b>              |
| <b>BUSM 66</b> | <b>Small Business Management</b>           |
| <b>BUSS 35</b> | <b>Professional Selling</b>                |
| <b>BUSS 36</b> | <b>Principles of Marketing</b>             |

## **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:**

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

### **PLUS**

**Select six [6] units from the following:**

|                |  |
|----------------|--|
| <b>AGOR 71</b> | <b>Landscape Construction Fundamentals</b> |
| <b>BUSM 20</b> | <b>Principles of Business</b>              |
| <b>BUSM 66</b> | <b>Small Business Management</b>           |
| <b>BUSS 35</b> | <b>Professional Selling</b>                |
| <b>BUSS 36</b> | <b>Principles of Marketing</b>             |

## **ASSOCIATE IN SCIENCE DEGREE MAJORS IN HORSE RANCH MANAGEMENT (20102)**

**❖ Requirements for the Major:**

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

**PLUS**

Select six [6] units from the following:

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

## **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:**

|   |  |
|---|--|
| <b>AGAB 20</b>  | <b>Microcomputer Applications in Agriculture</b> |
| <b>AGAG 59 <i>or</i> 60 <i>or</i><br/>61 <i>or</i> 62</b> | <b>Work Experience in Agriculture</b>            |
| <b>AGAN 2</b>   | <b>Animal Nutrition</b>                          |
| <b>AGAN 94</b>  | <b>Animal Breeding</b>                           |
| <b>AGLI 16</b>  | <b>Horse Production <i>or</i></b>                |
| <b>AGLI 18</b>  | <b>Horse Ranch Management</b>                    |
| <b>AGLI 19</b>  | <b>Horse Hoof Care</b>                           |
| <b>AGLI 96</b>  | <b>Animal Sanitation and Disease Control</b>     |
| <b>AGLI 97</b>  | <b>Artificial Insemination of Livestock</b>      |

## **ASSOCIATE IN SCIENCE DEGREE MAJORS IN PET SCIENCE (20104)**

### **❖ Requirements for the Major:**

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

## **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:**

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

## **AGRICULTURE: AGRI-BUSINESS**

**AGAB 20—MICROCOMPUTER APPLICATIONS IN AGRICULTURE**  
54 hours lecture

**3 UNITS**  
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**  
54 hours lecture.

**3 UNITS**  
**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**  
54 hours lecture.

**3 UNITS**  
**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**  
54 hours lecture.

**3 UNITS**  
**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**  
36 hours lecture, 54 hours lab.

**3 UNITS**  
**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**

3 UNITS

54 hours lecture.

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**

3 UNITS

54 hours lecture.

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**

3 UNITS

54 hours lectures.

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**

3 UNITS

Spring Semester

Degree Appropriate, CSU

36 hours lecture, 54 hours lab.

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**

4 UNITS

Fall Semester

Degree Appropriate, CSU, UC

54 hours lecture, 54 hours lab.

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

**AGLI 17—SHEEP PRODUCTION**

3 UNITS

Spring Semester

Degree Appropriate, CSU

36 hours lecture, 54 hours lab.

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.

4 UNITS

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.

2 UNITS

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.

2 UNITS

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.

3 UNITS

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.

2 UNITS

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.

3 UNITS

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.

2 UNITS

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.

3 UNITS

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**

36 hours lecture, 54 hours lab.

3 UNITS

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**

Fall Semester

36 hours lecture, 54 hours lab.

3 UNITS

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 1**

36 hours lecture, 54 hours lab.

(May be taken for option of letter grade or Credit/No Credit.)

3 UNITS

Degree Appropriate, CSU

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**

36 hours lecture, 54 hours lab.

(May be taken for option of letter grade or Credit/No Credit.)

3 UNITS

Degree Appropriate, CSU

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**

36 hours lecture, 54 hours lab.

(May be taken for option of letter grade or Credit/No Credit.)

3 UNITS

Degree Appropriate, CSU

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**

Fall Semester

54 hours lecture.

3 UNITS

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**

36 hours lecture, 54 hours lab.

3 UNITS

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**

Spring Semester

3 UNITS

Degree Appropriate

54 hours lecture.

**Advisory Prerequisite:** Eligibility for ENGL 68.

Covers the care and management of cats. Includes breed identification and characteristics, grooming and showing, feeding and nutrition, practical care, behavior, breeding, and housing kittens.

**AGPE 73—TROPICAL AND COLDWATER FISH MANAGEMENT**

**2 UNITS**

Fall Semester

**Degree Appropriate**

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**

**2 UNITS**

Fall Semester

**Degree Appropriate**

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**

**3 UNITS**

Spring Semester

**Degree Appropriate**

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**

**3 UNITS**

54 hours lecture.

**Degree Appropriate, CSU, UC**

**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**

**3 UNITS**

54 hours lecture.

**Degree Appropriate**

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. 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, <i>or</i> |
| ENGL 1AH | Freshman Composition – Honors   |
|          | <i>and</i>                      |
| SPCH 1A  | Public Speaking, <i>or</i>      |
| 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

|          |   |
|----------|---|
| ARTA 1   | Understanding the Visual Arts                               |
| ARTA 1H  | Understanding the Visual Arts – Honors                      |
| ARTA 2   | Topics in Visual Art and Culture                            |
| ARTA 2H  | Topics in Visual Art and Culture – Honors                   |
| ARTA 3   | Survey of Women and Gender in Art                           |
| ARTA 3H  | Survey of Women and Gender in Art - 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 6H  | History of Modern Art - Honors                              |
| ARTA 9   | Asian Art   |
| ARTA 11  | Arts of Africa, Oceania, and Native America                 |
| ARTA 12  | Pre-Columbian Art of the Americas                           |
| ARTA 12H | Pre-Columbian Art of the Americas - Honors                  |
| ARTB 14  | Introduction to Art Fundamentals                            |
| ARTD 15A | Drawing: Beginning  |
| ARTD 20  | Design: Two Dimensional                                     |
| ARTS 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

|          |  |
|----------|--|
| 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 1  | History of the U.S.                                |
| *HIST 3  | History of World Civilization                      |
| *HIST 3H | History of World Civilization – Honors             |
| *HIST 4  | History of World Civilization                      |
| *HIST 4H | History of World Civilization – Honors             |
| *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 10 | History of Asia                                    |
| *HIST 11 | History of Asia                                    |
| *HIST 19 | History of Mexico                                  |
| *HIST 30 | History of the African American                    |
| *HIST 31 | History of the African American                    |
| *HIST 35 | History of Africa                                  |
| *HIST 36 | Women in American History – Beyond the Stereotypes |
| *HIST 39 | California History                                 |
| *HIST 40 | History of the Mexican American                    |
| HUMA 1   | The Humanities                                     |
| ITAL 1   | Elementary Italian                                 |
| ITAL 2   | Elementary Italian                                 |
| ITAL 3   | Intermediate Italian                               |
| ITAL 4   | Intermediate Italian                               |
| ITAL 60  | Italian Culture Through Cinema                     |
| JAPN 1   | Elementary Japanese                                |
| JAPN 2   | Elementary Japanese                                |
| JAPN 3   | Intermediate Japanese                              |
| JAPN 4   | Intermediate Japanese                              |
| JAPN 5   | Advanced Japanese                                  |
| LIT 1    | Early American Literature                          |
| LIT 2    | Modern American Literature                         |
| LIT 6A   | Survey of English Literature                       |
| LIT 6B   | Survey of English Literature                       |
| LIT 11A  | World Literature                                   |
| LIT 11B  | World Literature                                   |
| LIT 14   | Introduction to Modern Poetry                      |
| LIT 15   | Introduction to Cinema                             |
| LIT 20   | African American Literature                        |
| LIT 25   | Contemporary Mexican American Literature           |
| LIT 33   | Images of Women in Literature                      |
| LIT 35   | Science Fiction and Fantasy Survey                 |
| LIT 36   | Introduction to Mythology                          |
| LIT 40   | Children's Literature                              |

## Humanities (*continued*)

|          |  |
|----------|--|
| LIT 46   | The Bible as Literature: Old Testament |
| LIT 47   | The Bible as Literature: New Testament |
| PHIL 5   | Introduction to Philosophy             |
| PHIL 5H  | Introduction to Philosophy – Honors    |
| PHIL 12  | Ethics                                 |
| PHIL 12H | Ethics – Honors                        |
| PHIL 15  | Major World Religions                  |
| PHIL 15H | Major World Religions – Honors         |
| PHIL 20A | History of Western Philosophy          |
| PHIL 20B | History of Western Philosophy          |
| SIGN 80  | American Sign Language I               |
| SIGN 85  | American Deaf Culture                  |
| SPAN 1   | Elementary Spanish                     |
| SPAN 1H  | Elementary Spanish – Honors            |
| SPAN 2   | Elementary Spanish                     |
| SPAN 2H  | Elementary Spanish - Honors            |
| SPAN 3   | Intermediate Spanish                   |
| SPAN 3H  | Intermediate Spanish – Honors          |
| SPAN 4   | Intermediate Spanish                   |
| SPAN 11  | Spanish for the Spanish Speaking       |
| SPAN 12  | Spanish for the Spanish Speaking       |

\* 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:*

|          |  |
|----------|--|
| *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 Perspective |
| AGFR 20  | Conservation of Natural Resources                             |
| ANTH 3   | Archaeology   |
| ANTH 5   | Principles of Cultural Anthropology                           |
| ANTH 22  | General Cultural Anthropology                                 |
| ANTH 30  | The Native American   |
| BUSC 1A  | Principles of Economics – Macroeconomics                      |
| BUSC 1AH | Principles of Economics – Macroeconomics – Honors             |
| BUSC 1B  | Principles of Economics – Microeconomics                      |
| BUSC 1BH | Principles of Economics – Microeconomics – Honors             |
| CHLD 1   | Child, Family, and Community                                  |
| CHLD 10  | Child Growth and Development                                  |

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

**Elective Courses (*continued*)**

|          |   |
|----------|---|
| CHLD 10H | Child Growth and Development – Honors   |
| GEOG 2   | Human Geography                         |
| GEOG 5   | World Regional Geography                |
| GEOG 30  | Geography of California                 |
| *HIST 3  | History of World Civilization           |
| *HIST 3H | History of World Civilization – Honors  |
| *HIST 4  | History of World Civilization           |
| *HIST 4H | History of World Civilization – Honors  |
| *HIST 10 | History of Asia                         |
| *HIST 11 | History of Asia                         |
| *HIST 19 | History of Mexico                       |
| *HIST 35 | History of Africa                       |
| *HIST 39 | California History                      |
| JOUR 2   | Mass Media and Society                  |
| POLI 2   | Political Science                       |
| POLI 5   | Political Science Theory                |
| POLI 9   | Introduction to International Relations |
| PSYC 1A  | Introduction to Psychology              |
| PSYC 1AH | Introduction to Psychology – Honors     |
| *PSYC 25 | The Psychology of Women                 |
| SOC 1    | Sociology                               |
| SOC 1H   | Sociology – Honors                      |
| SOC 2    | Sociology                               |
| SOC 2H   | Sociology – Honors                      |
| SOC 4    | Introduction to Gerontology             |
| SOC 5    | Introduction to Criminology             |
| SOC 14   | Marriage and the Family                 |
| SOC 15   | Child Development                       |
| SOC 20   | Sociology of Ethnic Relations           |
| SOC 20H  | Sociology of Ethnic Relations – Honors  |
| SPCH 26  | Interpersonal Communication             |
| SPCH 26H | Interpersonal Communication – Honors    |

**AREA E:**

**Lifelong Understanding and Self-Development (3 units):**

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

|                  |   |
|------------------|---|
| <b>AD 3</b>      | <b>Chemical Dependency</b>                        |
| <b>BIOL 5</b>    | <b>Contemporary Health Issues</b>                 |
| <b>BIOL 13</b>   | <b>Human Reproduction, Development and Aging</b>  |
| <b>BIOL 15</b>   | <b>Human Sexuality</b>                            |
| <b>BIOL 15H</b>  | <b>Human Sexuality – Honors</b>                   |
| <b>COUN 5</b>    | <b>Career/Life Planning</b>                       |
| <b>FCS 41</b>    | <b>Life Management</b>                            |
| <b>NF 10</b>     | <b>Nutrition for Personal Health and Wellness</b> |
| <b>NF 25</b>     | <b>Essentials of Nutrition</b>                    |
| <b>NF 25H</b>    | <b>Essentials of Nutrition – Honors</b>           |
| <b>NF 28</b>     | <b>Cultural and Ethnic Foods</b>                  |
| <b>PE 34</b>     | <b>Fitness for Living</b>                         |
| <b>PSYC 14</b>   | <b>Developmental Psychology</b>                   |
| <b>* PSYC 25</b> | <b>The Psychology of Women</b>                    |
| <b>PSYC 26</b>   | <b>Psychology of Sexuality</b>                    |
| <b>PSYC 33</b>   | <b>Psychology for Effective Living</b>            |

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