

AGRICULTURE: ANIMAL SCIENCE (ASCI)

ASCI 1 Animal Science

3 Units (Degree Applicable, CSU, UC, C-ID #: AG-AS 104)

Lecture: 54

A scientific approach to the livestock industry encompassing aspects of animal anatomy, physiology, nutrition, genetics, and epidemiology. Emphasis on the origin, characteristics, adaptations, and contributions of livestock to the modern agriculture industry. Field trips may be required.

ASCI 2 Animal Nutrition

3 Units (Degree Applicable, CSU, UC, C-ID #: AG-AS 132 L, (2+2L))

Lecture: 54

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

ASCI 2L Animal Nutrition Laboratory

0.5 Units (Degree Applicable, CSU, C-ID #: AG-AS 132 L, (2+2L))

Lab: 27

Corequisite: *ASCI 2*

Animal nutrition laboratory course emphasizing the composition and analysis of feeds and their utilization by domestic animals, including evaluation of economic trends and current feed industry technology.

ASCI 12 Exotic Animal Management

3 Units (Degree Applicable)

Lecture: 54

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.

ASCI 14 Swine Production

3 Units (Degree Applicable, CSU)

Lecture: 36 Lab: 54

Study of the principles and practices in the purebred and commercial pork production industries; emphasis on the importance of breeds, breeding principles, selection, nutrition, environmental management, health, marketing and recordkeeping to ensure scientifically-based management decisions and consumer product acceptance.

ASCI 16 Horse Production and Management

4 Units (Degree Applicable, CSU, UC)

Lecture: 54 Lab: 54

Selection, utilization, and management of the light horse. Emphasis is on evaluation, health care, and handling skills.

ASCI 17 Sheep Production

3 Units (Degree Applicable, CSU)

Lecture: 36 Lab: 54

Survey of the sheep and goat industries; management of commercial, purebred and small farm flocks; selecting, feeding, breeding, and basic care of small ruminants plus marketing of sheep, goats and their products. Laboratory and field trips required.

ASCI 18 Horse Ranch Management

4 Units (Degree Applicable, CSU)

Lecture: 54 Lab: 54

Formerly AGLI 18

Skills and procedures used in the management of an equine business. Includes business plans and record keeping, staff and financial management, horse care and training, and farm design for a variety of horse operations.

ASCI 19 Horse Hoof Care

2 Units (Degree Applicable, CSU)

Lecture: 18 Lab: 54

Formerly AGLI 19

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

ASCI 20 Horse Behavior and Training

2 Units (Degree Applicable)

Lecture: 18 Lab: 54

Prerequisite: *ASCI 16*

Formerly AGLI 20

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.

ASCI 30 Beef Production

3 Units (Degree Applicable, CSU, C-ID #: AG-AS 108 L)

Lecture: 36 Lab: 54

Purebred and commercial beef cattle production; emphasis on the importance of breeds, breeding principles, selection, nutrition, environmental management, health, marketing, and recordkeeping to ensure scientifically based management decisions and consumer product acceptance as applied to beef cattle. Laboratory required. Field trips required.

ASCI 34 Livestock Judging and Selection

2 Units (Degree Applicable, CSU, UC)

Lecture: 18 Lab: 54

Study of form and appearance of farm animals as related to their function. Includes judging of breeding and terminal livestock as well as carcass evaluation. May require field trip.

ASCI 51 Animal Handling and Restraint

3 Units (Degree Applicable, CSU)

Lecture: 36 Lab: 54

Formerly AGAN 51

Methods of proper handling for large and small animals including chemical and physical techniques of restraint. Field trips required. Note: Students must provide documentation of up-to-date rabies vaccination series or titer prior to being enrolled, as required by BP & AP 5210 and requirements mandated by American Veterinary Medical Association. The cost for two-dose rabies vaccination is approximately \$850-\$1,050 (prices are subject to change), and both doses are required. Instructions on submitting documentation are available at <https://www.mtsac.edu/vettech/immunizations.html>. Additional information available at CDC Information and AVMA policies.

ASCI 59 Work Experience in Agriculture

1-4 Units (Degree Applicable)
(May be taken for Pass/No Pass only)

Prerequisite: *Instructor approval and Compliance with Work Experience regulations as designated in the College Catalog.*

This course is designed to provide Animal Science majors with actual on-the-job experience in an approved work station which is related to classroom instruction. A minimum of 54 clock hours per semester is required for each one unit of credit. It is recommended that the hours per week are equally distributed throughout the semester. Instructor approval required.

ASCI 70 Pet Shop Management

3 Units (Degree Applicable)
Lecture: 54

Pet shop operations and the economic aspects of the pet industry. Organization and operation of pet shops, animal care practices, and sound business management practices.

ASCI 71 Canine Management

3 Units (Degree Applicable)
Lecture: 54

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 and training of dogs. May include field trips.

ASCI 72 Feline Management

3 Units (Degree Applicable)
Lecture: 54

Care and management of cats including breed identification and characteristics, grooming, showing, nutrition, practical care, behavior, breeding, and housing.

ASCI 73 Tropical and Coldwater Fish Management

2 Units (Degree Applicable)
Lecture: 36

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

ASCI 74 Reptile Management

2 Units (Degree Applicable)
Lecture: 36

Care and maintenance of reptiles and amphibians, including snakes, lizards, turtles, tortoises, newts, salamanders and frogs. Identification and characteristics of reptiles commonly kept as pets. Housing, feeding, health maintenance, breeding, and raising of reptiles.

ASCI 76 Aviculture - Cage and Aviary Birds

3 Units (Degree Applicable)
Lecture: 54

Cage and aviary birds marketed in the wholesale and retail pet trade. Identification, nutrition, breeding, disease prevention and control, and aviary construction. Psittacines, soft bills, finches, game birds, poultry, and ornamental waterfowl.

ASCI 94 Animal Breeding

3 Units (Degree Applicable)
Lecture: 54

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.

ASCI 96 Animal Sanitation and Disease Control

3 Units (Degree Applicable, CSU, C-ID #: AG-AS 136 L,, (96+96L))
Lecture: 54

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

ASCI 96L Animal Sanitation and Disease Control Laboratory

0.5 Units (Degree Applicable, CSU, C-ID #: AG-AS 136 L, (96+96L))
Lab: 27

Corequisite: *ASCI 96 (may have been taken previously)*

Application and development of biosecurity protocols, stressing humane handling and housing, use of disinfectants, and parasite control of domestic animals in the animal sanitation and control lab.

ASCI 97 Artificial Insemination of Livestock

3 Units (Degree Applicable)
Lecture: 36 Lab: 54

Formerly AGLI 97

Theory and application of artificial insemination of domestic animals including semen evaluation and processing, heat synchronization, and pregnancy diagnosis.