



Animal Sciences

College of
Agriculture

Animal Sciences involves studying and applying the basic principles of nutrition, reproduction, and genetics to the production and management of horses, dairy and beef cattle, sheep, swine, and poultry. As a major, you will have the opportunity to pursue specific interests by selecting one of three options in animal production, dairy production or equine production

No one program fits all Animal Sciences students. Animal Sciences students come from varied backgrounds. Interests range from livestock and poultry production and management to marketing and public relations; from public education and extension to graduate training in research and teaching and veterinary medicine. No matter what livestock species you have an interest in, the Animal Sciences major will allow you to combine your interest with your desire for an exciting and rewarding career.

Graduation Requirements

To earn the Bachelor of Science in Animal Sciences, the student must have a minimum of 128 credit hours with at least a 2.0 grade-point standing. A minimum of 48 credit hours must be from upper division courses (300 and above). Remedial courses may **not** be counted toward the total hours required for the degree. In addition to University Studies requirements, students must complete college, departmental and specialty support requirements.

College Requirements

ENG 203 Business Writing	3
or	
ENG 204 Technical Writing	3
GEN 100 Issues in Agriculture: The Development of Modern Agriculture*	3
GEN 200 Issues in Agriculture: Contemporary Problems in Agriculture and Natural Resources*	3

*These courses also satisfy the University Studies Oral Communication requirement.

In addition, the student must propose a plan of study for the junior and senior years.

Premajor Requirements

Mathematics

MA 109 College Algebra and	
MA 123 Elementary Calculus and Its Applications	6
OR	
MA 113 Calculus I	4

Biology

BIO 150/152 Principles of Biology I and II	6
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Chemistry

CHE 105/107 General College Chemistry I and II	6
CHE 115 General Chemistry Laboratory	3

Major Requirements

A minimum of 25 hours of departmental courses is required for each option. Required courses in the three areas are as follows:

Animal Production Option

ASC 106 Introductory Animal Sciences	3
ASC 120 Introductory Animal Science Laboratory	1
ASC 300 Meat Science	4
ASC 362 Animal Breeding	3
ASC 364 Reproductive Physiology of Farm Animals	3
ASC 378 Animal Nutrition	3
ASC 380 Feeds and Feeding	3
ASC 470 Capstone for Animal Agriculture	3

plus one of the following:

ASC 404G Sheep Science	4
ASC 406 Beef Cattle Science	4
ASC 408G Swine Science	3
ASC 410G Equine Science	3
ASC 420G Dairy Cattle Science	3

Dairy Production Option

ASC 106 Introductory Animal Sciences	3
ASC 120 Introductory Animal Science Laboratory	1
ASC 362 Animal Breeding	3
ASC 364 Reproductive Physiology of Farm Animals	3
ASC 378 Animal Nutrition	3
ASC 380 Feeds and Feeding	3
ASC 420G Dairy Cattle Science	3
ASC 470 Capstone for Animal Agriculture	3
ASC 564 Milk Secretion	3

Equine Production Option

ASC 106 Introductory Animal Sciences	3
ASC 120 Introductory Animal Sciences Laboratory	1
ASC 310 Equine Anatomy and Conformation	2
ASC 320 Equine Management	3
ASC 362 Animal Breeding	3
ASC 364 Reproductive Physiology of Farm Animals	3
ASC 378 Animal Nutrition	3
ASC 380 Feeds and Feeding	3
ASC 410G Equine Science	3
ASC 470 Capstone for Animal Agriculture	3

Specialty Support

ABT/ASC/ENT 360 Genetics	
or	
BIO 304 Principles of Genetics	3-4
CHE 230 Organic Chemistry I	
or	
CHE 236 Survey of Organic Chemistry	3

Depending on the student's area of interest and subject to the advisor's approval, an additional 15 hours of courses at the 200-level or above may be selected from biochemistry, biology, chemistry, physics, statistics, or any agricultural related area other than Animal Sciences.

Electives

Electives should be selected to complete the 128 semester hours required for graduation.