



Animal Sciences

College of Agriculture
and School of Human
Environmental Sciences

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.

Plan of Study

As an animal sciences major you are required to develop an acceptable **Plan of Study** during your sophomore year for your junior and senior years. The plan must be signed by your advisor and returned to the Associate Dean for Instruction's office.

If you are an upper division transfer student (from another university or from another UK college or department) then you will submit your plan during the first semester you are enrolled in the program.

Consult your academic advisor in developing your Plan of Study.

Each student must complete the following:

College Required Hours

ENG 203 Business Writing	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.

Note: Students transferring into the college with 30 or more hours take only GEN 200 plus one communications course from the approved sequence in University Studies.

Subtotal: College Required Hours 6-9

University Studies Requirements Hours

See "University Studies Program" on pages 70-74 of the 2004-2005 UK Bulletin for the complete University Studies requirements. The courses listed below are (a) recommended by the college, or (b) required courses that also fulfill University Studies areas. Students should work closely with their advisor to complete the University Studies Program requirements.

Courses marked with an asterisk (*) may also be used to satisfy University Studies requirements.

Math

MA 109 College Algebra	3
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Inference-Logic

MA 123 Elementary Calculus and Its Applications	3
or	
MA 113 Calculus I	4

Natural Sciences

CHE 105 General College Chemistry I	3
CHE 107 General College Chemistry II	3

USP Electives

BIO 150 Principles of Biology I	3
BIO 152 Principles of Biology II	3

Premajor Requirements

Hours

*MA 109 College Algebra	and	
*MA 123 Elementary Calculus and Its Applications		6
or		
*MA 113 Calculus I		4
*BIO 150 Principles of Biology I		3
*BIO 152 Principles of Biology II		3
*CHE 105 General College Chemistry I		3
*CHE 107 General College Chemistry II		3
*CHE 115 General Chemistry Laboratory		3

Subtotal: Premajor Hours 19-21

Major Requirements

Hours

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 470 Capstone for Animal Agriculture	3

Subtotal: Major Hours 19

In addition to the Major Requirements, students choose **one** of three options:

Option A: Animal Production

ASC 300 Meat Science	4
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

Subtotal: Option A Hours 7-8

Option B: Dairy Production

ASC 420G Dairy Cattle Science	3
ASC 564 Milk Secretion	3

Subtotal: Option B Hours 6

Animal Sciences • 2

Option C: Equine Production

ASC 310 Equine Anatomy and Conformation	2
ASC 320 Equine Management	3
ASC 410G Equine Science	3
Subtotal: Option C Hours	8

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 15

Subtotal: Specialty Support **21-22**

Electives

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

Subtotal: Electives **minimum of 23**

TOTAL HOURS: **128**