

# ANIMAL SCIENCES, BS

for the degree of Bachelor of Science Major in Animal Sciences

Students pursuing this major select one of three concentrations:

- Companion Animal and Equine Science Concentration (<http://catalog.illinois.edu/undergraduate/aces/animal-sciences-bs/companion-equine-science/>)
- Food Animal Production and Management Concentration (<http://catalog.illinois.edu/undergraduate/aces/animal-sciences-bs/food-animal-production-management/>)
- Science, Pre-Veterinary and Medical Concentration (<http://catalog.illinois.edu/undergraduate/aces/animal-sciences-bs/science-pre-veterinary-medical/>)

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## Graduation Requirements

Minimum hours required for graduation: 126 hours.

## University Requirements

Minimum of 40 hours of upper-division coursework, generally at the 300 and 400 level. These hours can be drawn from all elements of the degree. Students should consult their academic advisor for additional guidance in fulfilling this requirement.

The university and residency requirements can be found in the Student Code (<https://studentcode.illinois.edu/article3/part8/3-801/>) (§ 3-801) and in the Academic Catalog (<http://catalog.illinois.edu/general-information/degree-general-education-requirements/>).

## General Education Requirements

Follows the campus General Education (Gen Ed) requirements (<https://courses.illinois.edu/gened/DEFAULT/DEFAULT/>). Some Gen Ed requirements may be met by courses required and/or electives in the program.

Code	Title	Hours
	Composition I	4-6
	Advanced Composition	3
	Humanities & the Arts (6 hours)	6
	Natural Sciences & Technology (6 hours)	6
	fulfilled by CHEM 102, CHEM 104, and MCB 100	
	Social & Behavioral Sciences (6 hours)	6
	fulfilled by ECON 102 or ACE 100 and one more course approved as Social & Behavioral Sciences	
	Cultural Studies: Non-Western Cultures (1 course)	3
	Cultural Studies: US Minority Cultures (1 course)	3
	Cultural Studies: Western/Comparative Cultures (1 course)	3
	Quantitative Reasoning (2 courses, at least one course must be Quantitative Reasoning I)	6-8
	fulfilled by MATH 220, MATH 221, or MATH 234; and ACE 262, CPSC 241, ECON 202, PSYC 235, STAT 100, or SOC 280	

Language Requirement (Completion of the third semester or equivalent of a language other than English is required) 0-15

Code	Title	Hours
<b>Department Foundation</b>		
ANSC 198	Building Habits for Success in Animal Sciences	2
Communication Option:		3 or 6
CMN 101	Public Speaking	
ALEC 115	Let's Talk about Food, Agriculture, and the Environment	
CMN 111 & CMN 112	Oral & Written Comm I and Oral & Written Comm II	
Calculus Option - Select one of the following:		4
MATH 220	Calculus	
MATH 221	Calculus I	
MATH 234	Calculus for Business I	
Statistics Option - Select one of the following:		3
ACE 262	Applied Statistical Methods and Data Analytics I	
CPSC 241	Intro to Applied Statistics	
ECON 202	Economic Statistics I	
PSYC 235	Intro to Statistics	
STAT 100	Statistics	
SOC 280	Intro to Social Statistics	
CHEM 102 & CHEM 103	General Chemistry I and General Chemistry Lab I	4
CHEM 104 & CHEM 105	General Chemistry II and General Chemistry Lab II	4
MCB 100 & MCB 101	Introductory Microbiology and Intro Microbiology Laboratory	5
ECON 102 or ACE 100	Microeconomic Principles or Introduction to Applied Microeconomics	3 or 4
<b>Major Core</b>		
ANSC 100	Intro to Animal Sciences	4
ANSC 101	Contemporary Animal Issues	3
ANSC 103	Working With Farm Animals	2
ANSC 221	Cells, Metabolism and Genetics	3
ANSC 222	Anatomy and Physiology	3
ANSC 223	Animal Nutrition	3
ANSC 224	Animal Reproduction and Growth	4
ANSC 298	Animal Science Careers and Professional Development	1
ANSC 398	UG Experiential Learning (must be taken for a letter grade)	1
ANSC 498	Integrating Animal Sciences	2

Code	Title	Hours
<b>Concentration Core</b>		

Concentration prescribed courses. See specific requirements for the concentration listed below.

Companion Animal & Equine Science (<http://catalog.illinois.edu/undergraduate/aces/animal-sciences-bs/companion-equine-science/>)

Food Animal Production & Management (<http://catalog.illinois.edu/undergraduate/aces/animal-sciences-bs/food-animal-production-management/>)

Science, Pre-Veterinary & Medical (<http://catalog.illinois.edu/undergraduate/aces/animal-sciences-bs/science-pre-veterinary-medical/>)

Code	Title	Hours
<b>Total Hours</b>		<b>126</b>

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## Sample Sequence

This sample sequence is intended to be used only as a guide for degree completion. All students should work individually with their academic advisors to decide the actual course selection and sequence that works best for them based on their academic preparation and goals. Enrichment programming such as study abroad, minors, internships, and so on may impact the structure of this four-year plan. Course availability is not guaranteed during the semester indicated in the sample sequence.

Students must fulfill their Language Other Than English requirement by successfully completing a third level of a language other than English. For more information, see the corresponding section on the Degree and General Education Requirements page (<http://catalog.illinois.edu/general-information/degree-general-education-requirements/>).

### First Year

First Semester	Hours	Second Semester	Hours
ANSC 100	4	RHET 105 or CMN 101	4
ACES 101	3	2 ANSC 101	3
CHEM 102	3	CHEM 104	3
CHEM 103	1	CHEM 105	1
CMN 101 or RHET 105	4	3 MATH 234, 220, or 221	4
General Education course	2	3 ANSC 103	2
	<b>16</b>		<b>17</b>

### Second Year

First Semester	Hours	Second Semester	Hours
ANSC 222	3	ANSC 223	3
ANSC 221	4	ANSC 224	4
General Education course	1	3 ANSC 298	1
Statistics course from degree list	4	3 Language Other than English (3rd level)	4
General Education course	4	3 General Education course	4
	<b>15</b>		<b>16</b>

### Third Year

First Semester	Hours	Second Semester	Hours
Concentration Elective	1	3 ANSC 398	1

Concentration Elective	3	Concentration Elective	3
MCB 100	3	Concentration Elective	3
MCB 101	4	2 ACE 100 or ECON 102	4
General Education course	3	3 General Education course	3
Free Elective course	2	3 Free Elective course	2
	<b>17</b>		<b>16</b>

### Fourth Year

First Semester	Hours	Second Semester	Hours
ANSC 498	3	2 Concentration Elective	3
Concentration Elective	3	3 General Education course	3
Free Elective course	3	3 Free Elective course	3
Free Elective course	3	3 Free Elective course	3
Free Elective course	3	3 Free Elective course	3
	<b>14</b>		<b>15</b>

### Total Hours 126

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Upon successful completion of a degree in Animal Sciences, students will:

1. Demonstrate a mastery of the principles of animal sciences including genetics, nutrition, reproduction, and physiology
2. Understand and apply knowledge of animal husbandry, behavior, and handling techniques to effectively interact with animals in a safe and humane manner
3. Describe the breadth of animal sciences in terms of the variety of career paths, the diversity of the animal industries, the many roles of animals in society, and the contemporary issues facing animals and their environments
4. Communicate effectively, both written and orally, and interpret scientific sources and data
5. Through real-world and classroom experiences, develop competencies transferable to animal science careers

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## Animal Sciences

Animal Sciences website (<https://ansc.illinois.edu/>)

Animal Sciences Laboratory  
1207 West Gregory Drive  
Urbana, IL 61801  
217-333-3131  
[ansc@illinois.edu](mailto:ansc@illinois.edu)

## **College of Agricultural, Consumer & Environmental Sciences**

College of Agricultural, Consumer & Environmental Sciences website  
(<https://aces.illinois.edu/>)

### **ACES Office of Academic Programs**

128 Mumford Hall  
1301 West Gregory Drive  
Urbana, IL 61801  
217-333-3380  
[aces-academics@illinois.edu](mailto:aces-academics@illinois.edu)

### **Advising**

Advising website (<https://ansc.illinois.edu/about/contact-us/#paragraph-499>)  
217-333-3570  
[anscadvising@illinois.edu](mailto:anscadvising@illinois.edu)

### **Admissions**

ACES Undergraduate Admissions (<https://aces.illinois.edu/admissions/>)  
University of Illinois Undergrad Admissions (<https://www.admissions.illinois.edu/>)  
217-333-3380  
[visitACES@illinois.edu](mailto:visitACES@illinois.edu)