

Bachelor of Science (BS)**Animal Science Option**

Agriculture, like most of our world, has changed dramatically and is infinitely more complex than most people can imagine. Today, most agriculture is seen as a technology-based industry that includes production, agriscience and agribusiness. Not only are agriculture graduates in demand to produce food, but also to package and transport it, market it, regulate its production and finance it. Using technology ranging from natural systems to artificial insemination agriculture graduates play key roles in planning for the efficient and safe future use of our animals, land and other natural resources.

Agribusiness: Animal Science majors take a variety of business-related courses such as: accounting, management, marketing, sales and finance while focusing on option specific courses like animal reproduction, animal breed improvement, animal diseases, nutrition, horse science and beef production.

Your Home Department...

/ The Agriculture Department has a high number of scholarships, last year awarding more than \$650,000 to students.

/ Faculty sponsor nine Agriculture clubs to help students develop leadership skills and serve the community.

/ All Agriculture Department facilities employ eager students to expand experiential learning and facilitate career readiness.

Becoming Career Ready...

/ Faculty with experience in various agribusiness areas work closely with students by providing them with faculty-mentored guidance and professional development opportunities. Students receive personal curriculum advisement from their advisor.

/ The Animal Science option prepares graduates for positions in management, sales, marketing, policy and related areas in the animal industry. Example job titles include animal technician, nature conservation officer, farm manager, breed analyst, extension educator and veterinary technician. The Animal Science also provides an excellent basis for graduate work leading to a master's degree or doctorate.

/ 100% of Southeast programs offer real-world experience. Agribusiness students earn this experience through a required internship or research project. Agribusiness students are also able to gain valuable hands-on experience in the classroom and at the departmental facilities.

/ The path to a successful career starts with you! You can maximize your career development by working closely with Career Services and Southeast faculty – they are here to help you connect your passions, interests and skills to jobs and opportunities in the field. Career Services provides professional career counseling and coaching, resume critiques, practice interviews, job search strategies, career events, networking opportunities and more.

Career Opportunities for Graduates:

- Agriculture Sales Representative
- Extension Agent
- Farm Manager
- Loan Officer
- Operations Manager
- Quality Control Analyst
- Research Technician
- USDA Meat Grader
- Cattle or Grain Merchandiser
- Reproduction Specialist
- Breed Association Marketing
- Therapeutic Riding Trainer
- Feed Lot Manager

Facilities

The department is committed to providing a variety of experiential learning opportunities for students majoring in agribusiness.

Students gain experience at the following facilities:

- David M. Barton Agriculture Research Center
- Charles Hutson Horticulture Greenhouse
- Charles Nemanick Alternative Agriculture Garden
- Sikeston Irrigation Field
- With individual faculty and members on projects

For more information on the facilities, visit <http://www.semo.edu/agriculture/facilities.htm>.

Transfer and Dual Credit Students

If you have dual credit or transfer credit, please visit our transfer course equivalencies guide at semo.edu/transfercredit.



To learn more
 Office of Admissions
 (573) 651-2590
admissions@semo.edu
semo.edu

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 the College of Science, Technology,
 Engineering and Mathematics
 online, visit
semo.edu/stem

For advising
 Center for Academic Advising
semo.edu/advising

Agribusiness: Animal Science Option

Bachelor of Science (BS)

This is a guide based on the 2021-2022 Undergraduate Bulletin and is subject to change. The time it takes to earn a degree will vary based on several factors such as dual enrollment, remediation, and summer enrollment. Students will meet with an academic advisor each semester and use Degree Works to monitor their individual progress.

CURRICULUM CHECKLIST

Agribusiness: Animal Science Option – 71 Hours**– No Minor Required****Required Courses:**

- ___ AG 111 Agribusiness Orientation (1)
- ___ AG 140 Communicating in Agriculture (3)
- ___ AG 208 Agriculture Bus Data Analysis (3)
- ___ AG 245 Agricultural Economics (3)
- ___ AG 250 Agribusiness Management (3)
- ___ AG 334 Agribusiness Finance (3)
- ___ AG 340 Agriculture Safety (3)
- ___ AG 355 Agriculture Seminar (2)
- ___ AG 381 Agribusiness Management II (3)
- OR
- ___ AC 221 Principles of Accounting I (3)
- ___ AG 447 Marketing of Agricultural Products (3)
- ___ AG 465 Agriculture Internship (3-6)
- OR
- ___ AG 469 Undergrad Research (3)
- ___ AG 470 Agribusiness Sales (3)
- ___ AO 120 Plant Science (3)
- ___ AO 125 Plant Science Lab (1)
- ___ AY 101 Animal Science (3)
- ___ HO 110 Intro to Horticulture (3)

Animal Science Option

- ___ AY 105 Animal Science Experiences (1)
- ___ AY 106 System & Structure of Livestock Animals (1)
- ___ AY 302 Animal Immunology (2)
- ___ AY 304 Principles of Animal Nutrition (3)
- ___ AY 350 Animal Reproduction (3)
- ___ AY 375 Animal Breed Improvement (3)

Choose 3 hours:

- ___ AY 306 Companion Animal Diseases (3)
- ___ AY 360 Livestock Diseases (3)

Choose 17 hours from:

- ___ AG 371 Topics in Agriculture (2)
- ___ AO 301 Forages (3)
- ___ AY 200 Companion Animals (3)
- ___ AY 205 Horse Science (3)
- ___ AY 210 Animal Welfare (2)
- ___ AY 220 Animal Handling (1)
- ___ AY 222 Swine Science (3)
- ___ AY 240 Beef Production (3)
- ___ AY 300 Domestic Animal A&P I (3)
- ___ AY 305 Advanced Horse Science (3)
- ___ AY 310 Domestic Animal A&P II (3)
- ___ AY 320 Meat Science (3)
- ___ AY 333 Livestock Behavior and Management (3)
- ___ AY 425 Feeding Nonruminants (3)
- ___ AY 435 Feeding Ruminants (3)
- ___ AY 440 Adv Beef Production (3)
- ___ AY 455 Form & Function of Livestock Animals (3)
- ___ UI 436 Agricultural Ethics (3)

Additional Requirements (may fulfill General Education requirements):

- ___ CH 181 Basic Principles of Chemistry (5)
- OR
- ___ CH 184/185 General Chemistry I and Lab (4)
- ___ MA 116 Precalculus A (3)
- OR
- ___ MA 155 Statistical Reasoning (3)

General Education Requirements – some requirements may be fulfilled by coursework in major program

- Social and Behavioral Sciences – 6 hours
- Constitution Requirement – 3 hours
- Written Communication – 6 hours
- Oral Communication – 3 hours
- Natural Sciences – 7 hours (from two disciplines, one to include a lab)
- Mathematics – 3 hours
- Humanities & Fine Arts – 9 hours (from at least two disciplines)
- Additional requirements – 5 hours (to include UI100 for native students)
- Civics examination

SAMPLE FOUR-YEAR PLAN

▶	Fall Semester		Spring Semester	
	Course #	Hrs	Course #	Hrs
FIRST YEAR	UI100	1	AG111	1
	EN100	3	AG208	3
	AY101	3	AG245	3
	AY105	1	AO120	3
	MA116 or MA155	3	AO125	1
	General Education	3	HO110	3
Total	14	Total	14	
SECOND YEAR	CH181 or CH184/185	4-5	AG 250	3
	Animal Science Elective	3	Animal Science Elective	3
	General Education	3	Animal Science Elective	3
	General Education	3	General Education	3
			General Education	3
Total	13-14	Total	15	
THIRD YEAR	AC221 or AG 381	3	AG140	3
	AG355	2	AG334	3
	AY302	2	AG470	3
	AY304	3	AY306 or AY360	3
	General Education	3	General Education	3
	General Education	3		
Total	16	Total	15	
FOURTH YEAR	AG350	3	AG340	3
	AY447	3	AY375	3
	Animal Science Elective	3	Animal Science Elective	3
	Elective	3	Animal Science Elective	3
	Elective	3	Elective	3
Total	15	Total	15	
SUMMER SESSION			AG465 or AG469	3

Degree requirements for all students: a minimum of 120 credit hours, completion of the General Education program, and completion of 39 senior division hours (300-599). Refer to the Undergraduate Bulletin or Degree Works for additional graduation requirements for your program.

Revised
6/15/2021

To learn more
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(573) 651-2590
admissions@semo.edu
semo.edu

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the College of Science, Technology,
Engineering and Mathematics
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