

**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](http://semo.edu/transfercredit).



**To learn more**  
 Office of Admissions  
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# 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
<b>FIRST YEAR</b>	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
<b>Total</b>	<b>14</b>	<b>Total</b>	<b>14</b>	
<b>SECOND YEAR</b>	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
<b>Total</b>	<b>13-14</b>	<b>Total</b>	<b>15</b>	
<b>THIRD YEAR</b>	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		
<b>Total</b>	<b>16</b>	<b>Total</b>	<b>15</b>	
<b>FOURTH YEAR</b>	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
<b>Total</b>	<b>15</b>	<b>Total</b>	<b>15</b>	
<b>SUMMER SESSION</b>			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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