

**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 L. Hutson Horticulture Greenhouse,
- Missouri Rice Research Farm,
- Charles Nemanick Alternative Agriculture Garden, and
- With individual faculty 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  
(573) 651-2590  
[admissions@semo.edu](mailto:admissions@semo.edu)  
[semo.edu](http://semo.edu)

**To explore**  
the College of Science, Technology,  
Engineering and Mathematics  
online, visit  
[semo.edu/stem](http://semo.edu/stem)

**For advising**  
Center for Academic Advising  
[semo.edu/advising](http://semo.edu/advising)

**Bachelor of Science (BS)**

This is a guide based on the 2019-2020 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 – 70 Hours  
– No Minor Required****Required Courses:**

- \_\_\_ AC221 Principles of Accounting I (3)  
AND
- \_\_\_ MI101 Introduction to Computer Applications (3)  
OR
- \_\_\_ AG208 Agriculture Business Data Analysis (3)  
AND
- \_\_\_ AG381 Agribusiness Management II (3)
- \_\_\_ AG245 Agricultural Economics (3)
- \_\_\_ AG250 Agribusiness Management (3)
- \_\_\_ AG334 Agribusiness Finance (3)
- \_\_\_ AG355 Agriculture Seminar (1)
- \_\_\_ AG447 Marketing of Agricultural Products (3)
- \_\_\_ AG465 Agriculture Internship (3)  
OR
- \_\_\_ AG469 Undergrad Research (3)
- \_\_\_ AG470 Agribusiness Sales (3)
- \_\_\_ AO120 Plant Science (3)
- \_\_\_ AO125 Plant Science Lab (1)
- \_\_\_ AY101 Animal Science (3)
- \_\_\_ HO110 Intro to Horticulture (3)
- \_\_\_ UI436 Agricultural Ethics (3)

**Animal Science Option**

- \_\_\_ AY105 Animal Science Experience (2)
- \_\_\_ AY304 Principles of Animal Nutrition (3)
- \_\_\_ AY350 Animal Reproduction (3)
- \_\_\_ AY360 Animal Immunology & Diseases (3)

**Choose 21 Hours From:**

- \_\_\_ AG371 Topics in Agriculture (2)
- \_\_\_ AO301 Forages (3)
- \_\_\_ AY200 Companion Animals (3)
- \_\_\_ AY205 Horse Science (3)
- \_\_\_ AY210 Animal Welfare (2)
- \_\_\_ AY220 Animal Handling (1)
- \_\_\_ AY240 Beef Production (3)
- \_\_\_ AY300 Domestic Animal Anatomy and Physiology (3)
- \_\_\_ AY305 Advanced Horse Science (3)
- \_\_\_ AY306 Companion Animal Diseases (3)
- \_\_\_ AY310 Domestic Animal A&P II (3)
- \_\_\_ AY320 Meat Science (3)
- \_\_\_ AY375 Animal Breed Improvement (3)
- \_\_\_ AY425 Feeding Nonruminants (3)
- \_\_\_ AY435 Feeding Ruminants (3)
- \_\_\_ AY440 Adv Beef Production (3)

**Additional Requirements:**

- \_\_\_ CH181 Basic Principles of Chemistry (5)  
OR
- \_\_\_ CH185 General Chemistry (5)
- \_\_\_ MA116 Precalculus A (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	3	AG208 or MI101	3
	EN100	3	AG245	3
	AY101	3	HO110	3
	AY105	2	AO120	3
	MA116	3	AO125	1
			General Education	3
	<b>Total</b>	<b>14</b>	<b>Total</b>	<b>16</b>
<b>SECOND YEAR</b>	CH181 or CH185	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>14</b>	<b>Total</b>	<b>15</b>
<b>THIRD YEAR</b>	AC221 or AG 381	3	AG334	3
	AG355	1	AG470	3
	AY304	3	AY360	3
	Animal Science Elective	3	General Education	3
	General Education	3	Elective	3
General Education	3			
	<b>Total</b>	<b>16</b>	<b>Total</b>	<b>15</b>
<b>FOURTH YEAR</b>	AG447	3	AY350	3
	Animal Science Elective	3	UI436	3
	Animal Science Elective	3	Animal Science Elective	3
	General Education	3	Elective	3
			Elective	3
	<b>Total</b>	<b>12</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, completion of 39 senior division hours (300-599), Writing Proficiency Exam (WP003).

Refer to the Undergraduate Bulletin or Degree Works for additional graduation requirements for your program.

Revised  
4/29/2019