

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

Agribusiness is a challenging, rewarding, multi-faceted industry. From large multinational corporations to emerging food manufacturing and input supply firms, there is a strong demand by agribusiness firms for more and better employees trained in both management and the agricultural sciences. Using technology ranging from natural systems to artificial insemination and embryo transfer systems, animal science involves the production, packaging, transportation, marketing and regulation of food, medical and fiber products.

Agribusiness: Animal Science students will...

- Take a variety of business-related courses such as: computer applications, accounting, economics, management, marketing, sales and finance.
- Take agriculture courses like animal science, animal breed improvement, animal diseases, nutrition, horse science and beef production.
- Complete an internship or research project.
- Be prepared for positions in management, sales, marketing, finance, policy and related areas in the animal industry.
- Be provided with a basis for graduate work leading to a master's degree or doctorate.

Career Planning

Career preparation is part of the mission of Southeast. 100% of programs offer our students an internship, study-abroad program, clinical opportunity, student teaching or research internship.

The Office of Career Services in Academic Hall 057 can provide students with professional career counseling and coaching, resume critiques, practice interviews, job search strategies, career events, networking opportunities, and more.

Career Opportunities

- 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.

Bachelor of Science (BS)

This is a guide based on the 2018-2019 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:**

- ___ AC 221 Principles of Accounting I (3)
AND
- ___ AD 101 Introduction to Microcomputer Applications (3)
OR
- ___ AG 208 Agriculture Business Data Analysis (3)
AND
- ___ AG 381 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)
- ___ 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)
- ___ AY405 Beef Production (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)

University Studies Requirements – some requirements may be fulfilled by coursework in major program

- Social and Behavioral Sciences – 3 hours
- Constitution requirement – 3 hours
- US History 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)

SAMPLE FOUR-YEAR PLAN

	Fall Semester		Spring Semester	
	Course #	Hrs	Course #	Hrs
FIRST YEAR	UI100	3	AD101 or AG 208	3
	EN100	3	AG245	3
	AY101	3	HO110	3
	AY105	2	AO120	3
	MA116	3	AO125	1
			University Studies	3
	Total	14	Total	16
SECOND YEAR	CH181 or CH185	5	AG 250	3
	Animal Science Elective	3	Animal Science Elective	3
	University Studies	3	Animal Science Elective	3
	University Studies	3	University Studies	3
			University Studies	3
	Total	14	Total	15
THIRD YEAR	AC221 or AG 381	3	AG334	3
	AG355	1	AG470	3
	AY304	3	AY360	3
	Animal Science Elective	3	University Studies	3
	University Studies	3	Elective	3
	University Studies	3		
	Total	16	Total	15
FOURTH YEAR	AG447	3	AY350	3
	Animal Science Elective	3	UI436	3
	Animal Science Elective	3	Animal Science Elective	3
	University Studies	3	Elective	3
			Elective	3
	Total	12	Total	15
SUMMER SESSION			AG465 or AG469	3

Degree requirements for all students: a minimum of 120 credit hours, completion of University Studies program, completion of 39 senior division hours (300-599), Writing Proficiency Exam (WP003), and completion of the Measure of Academic Proficiency and Progress (MAP) at the senior level. Refer to the Undergraduate Bulletin or Degree Works for additional graduation requirements for your program.

Revised
7/10/2018