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 agbusiness. 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. Agriculture graduates play key roles in monitoring our lakes and streams and planning for the efficient and safe future use of our water supply, land and other natural resources.

Plant & Soil Science students take a variety of business-related courses, such as computer applications, accounting, economics, management, marketing, sales and finance. Many of these courses focus specifically on agriculture. Students also focus on the scientific aspects of plants and soils, such as soils and soil fertility; pest management; plant breeding, nutrition, and pathology; crop production and physiology, as well as the management of natural resources.

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 Plant & Soil Science option prepares graduates for scientific and technical careers related to field crops, precision agriculture, soils, farm management, sales, marketing, finance, policy, production, consulting and related areas. Example job titles include soil conservationist, county agricultural agent, agronomist, crop consultant, field inspector and farm manager. The Plant & Soil Science option 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:
/ Agronomist
/ Biotechnologist
/ Crop Consultant
/ Crop and Pest Advisor
/ Extension Agent
/ Farm Manager
/ Field Inspector
/ Grain Merchandiser
/ Loan Officer
/ Operations Manager
/ Production Representative
/ Quality Control Analyst
/ Research Investigator
/ Research Technician
/ Rice Breeder
/ Rice Buyer
/ Soil Conservationist

Facilities
The department is committed to providing a variety of experiential-learning opportunities for students majoring in Agribusiness. Students can 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
/ Or with individual faculty members on projects.

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

Special Options with Agribusiness: Plant and Soil Science
This program of study is also available at the Regional Campuses (Kennett and Sikeston).

Transfer and Dual Credit Students
If you have dual credit or transfer credit, please visit our transfer course equivalencies guide at semo.edu/transfercredit.
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: Plant & Soil Science Option – 70 Hours – No Minor**

**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)
- AG249 Agricultural Economics (3)
- AG260 Agribusiness Management (3)
- AG334 Agribusiness Finance (3)
- AG355 Agriculture Seminar (3)
- **OR**
- AG447 Marketing of Agricultural Products (3)
- AG468 Agriculture Internship (3)
- **OR**
- AG499 Undergraduate Research (3)
- AG470 Agribusiness Sales (3)
- AO120 Plant Science (3)
- AO125 Plant Science Lab (1)
- AO101 Animal Science (3)
- HO110 Introduction to Horticulture (3)
- UI436 Agricultural Ethics (3)

**Plant and Soil Science Option**
- AG440 Precision Agriculture (3)
- AG215 Soils (3)
- AG260 Integrated Pest Management (3)
- AO323 Plant Pathology (3)
- AO420 Crop Physiology (3)
- AO427 Soil Fertility & Plant Nutrition (3)
- AO480 Crop Production (3)

Choose 11-12 hours from the following:
- AG444 Spatial Analysis (3)
- AO301 Forages (3)
- AO321 Cotton & Rice Culture (3)
- AO322 Weed Science (3)
- AO327 Sustainable Agriculture (3)
- AO340 Agroecosystems Analysis (3)
- AO401 Agriculture & Natural Resource Management (3)
- AO415 Crop Systems Management (3)
- AO444 Principles of Plant Breeding (3)
- AO555 Soil Classification & Resource Management (3)
- **AY105 Animal Science Experience (2)**

**Additional Requirements:**
Some courses may fulfill General Education requirements.
- **CH181 Basic Principles of Chemistry**
- **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**

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**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