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. 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.

Agriculture is a challenging, multi-faceted industry. It also is the production of food and fiber, maintenance of our water, and wise use of our natural resources. People who choose to make agriculture a career, are choosing to make a difference in the American way of life.

**Agribusiness: Plant and Soil Science students will...**

- 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.
- Spend a good deal of time in courses focusing 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.
- Be prepared for scientific and technical careers related to field crops, precision agriculture, soils, farm management, sales, marketing, finance, policy, production, consulting and related areas.
- Be provided with a basis for graduate work.

**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**

- 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

**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 semo.edu/transfercredit.
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: Plant & Soil 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 Undergraduate Research (3)
- AG470 Agribusiness Sales (3)
- AO120 Plant Science (3)
- AO125 Plant Science Lab (1)
- AO101 Animal Science (3)
- HU110 Introduction to Horticulture (3)
- UI436 Agricultural Ethics (3)

**Plant and Soil Science Option**
- AG440 Precision Agriculture (3)
- AO215 Soils (3)
- AQ250 Integrated Pest Management (3)
- AO323 Plant Pathology (3)
- AO420 Crop Physiology (3)
- AO427 Soil Fertility & Plant Nutrition (3)
- AO490 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)
- AO105 Animal Science Experience (2)

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

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<td>AY101</td>
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| Course # | Hrs  | Course # | Hrs  |
| AO260    | 3    | AC221 or AG381 | 3   |
| CH181 or CH185 | 5 | AG250 | 3 |
| University Studies | 3 | University Studies | 3 |
| University Studies | 3 | University Studies | 3 |
| University Studies | 3 | University Studies | 3 |  

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| Course # | Hrs  | Course # | Hrs  |
| AG440    | 3    | AG334    | 3   |
| AO427    | 3    | AG355    | 1   |
| Agriculture elective | 3 | AG470 | 3 |
| University Studies | 3 | Agriculture elective | 3 |
| University Studies | 3 | Elective | 3 |
| Total     | 15 | Total | 13 |
| THIRD YEAR|    |       |    |

| Course # | Hrs  | Course # | Hrs  |
| AG447    | 3    | AO480    | 3   |
| AO323    | 3    | UI436    | 3   |
| University Studies | 3 | Agriculture elective | 3 |
| University Studies | 3 | Elective | 3 |
| Elective | 3 | Elective | 3 |
| Total     | 15 | Total | 15 |
| FOURTH YEAR|    |       |    |

| Course # | Hrs  |
| AG465 or AG469 | 3 |

### SUMMER SESSION

**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 (MAPP) at the senior level. Refer to the Undergraduate Bulletin or Degree Works for additional graduation requirements for your program.