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.

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.

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.
## CURRICULUM CHECKLIST

### Agribusiness: Plant & Soil Science Option – 71 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)
- AG250 Agribusiness Management (3)
- AG334 Agribusiness Finance (3)
- AG355 Agriculture Seminar (2)
- AG447 Marketing of Agricultural Products (3)
- AG470 Agribusiness Sales (3)
- AO120 Plant Science (3)
- AO125 Plant Science Lab (1)
- AO101 Animal Science (3)
- HO101 Introduction to Horticulture (3)
- UI436 Agricultural Ethics (3)

Choose one course:
- AG465 Agriculture Internship (3)
- AG469 Undergraduate Research (3)

### Plant and Soil Science Option

- AG440 Precision Agriculture (3)
- AO215 Soils (3)
- AG200 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)
- AG340 Agroecosystems Analysis (3)
- AO401 Agriculture & Natural Resource Management (3)
- AO415 Crop Systems Management (3)
- AG444 Principles of Plant Breeding (3)
- AG355 Soil Classification & Resource Management (3)
- AO105 Animal Science Experience (2)

### Additional Requirements:

Some courses may fulfill General Education requirements.
- CH181 Basic Principles of Chemistry
- CH185 General Chemistry (5)
- MI116 Precalculus A (3)

### General Education Requirements

- 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

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## SAMPLE FOUR-YEAR PLAN

### FALL SEMESTER

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<td>AG245</td>
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### SPRING SEMESTER

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<td>CH181 or CH185</td>
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Total: 15

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### SUMMER SESSION

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**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.

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### TO LEARN MORE

Office of Admissions
(573) 651-2590
admissions@semo.edu
semo.edu

To explore the College of Science, Technology, Engineering and Mathematics online, visit semo.edu/stem

For advising Center for Academic Advising
semo.edu/advising

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