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, agri-science 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 planning for the efficient and safe future use of our water supply, land and other natural resources.

The horticulture option provides students with experience in ornamentals, fruits and vegetable production, turf and golf maintenance, landscape design and maintenance, viticulture, nursery production, greenhouse management and other areas.

Horticulture students take a variety of agribusiness courses, such as: management, marketing, sales, and accounting while also taking option specific courses such as horticulture crop production, viticulture, strategic urban horticulture and turfgrass management.

**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 Horticulture option prepares graduates for positions in food horticulture, golf course/turfgrass and greenhouse management as well as sales, marketing, finance, policy, consulting and related areas. Example job titles include production supervisor, sales manager, greenhouse manager, turf specialist, golf course manager, landscape manager and wholesale marketer. The Horticulture 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:**

- Greenhouse Owner/Manager
- Orchard owner/Manager
- Farm Owner/Manager
- Vineyard Owner/Manager
- Landscape Designer/Installer
- Plant Propagator/Breeder
- Sports Field Manager
- Extension Agent/Plant Inspector
- Food Production & Safety Manager
- Nursery Owner/Manager
- Urban Forester
- Hydroponics Operations Manager
- Product/Sales Representative
- Bank Finance Officer
- Research Technician
- Winemaker

**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, and
- With individual faculty members on projects.

For more information on the facilities, visit [http://www.semo.edu/agriculture/facilities.htm](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://www.semo.edu/transfercredit).
This is a guide based on the 2020-2021 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: Horticulture Option – 71 Hours – No Minor Required**

#### Required Courses:
- AC221 Principles of Accounting I (3)
- M1101 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 (2)
- AG447 Marketing of Agriculture Products (3)
- AG470 Agribusiness Sales (3)
- AO120 Plant Science (3)
- AO125 Plant Science Lab (1)
- AO110 Animal Science (3)
- HO110 Introduction to Horticulture (3)
- UI436 Agricultural Ethics (3)

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

#### Horticulture Option

**Required Courses:**
- AO215 Soils (3)
- AO323 Plant Pathology (3)
- HO225 Practical Horticulture Experiences (2)
- HO225 Identification and Use of Deciduous Plants (2)
- HO235 Identification and Use of Evergreen Plants (2)
- HO245 Identification and Use of Intertropical and Tropical Plants (2)
- HO255 Identification and Use of Annual and Perennial Plants (2)

**Choose 14 Hours From:**
- AG551 Water Management (3)
- AO322 Weed Science (3)
- HO215 Practical Horticulture Experiences (2) (repeatable up to 4 credits)
- HO310 Alternative Agriculture (3)
- HO320 Nursery Administration and Culture (3)
- HO321 Advanced Plant Propagation (3)
- HO330 Strategic Landscape Design (3)
- HO342 Production of Horticultural Crops (3)
- HO350 Advanced Greenhouse Management (4)
- HO355 Interior Plantscaping (3)
- HO430 Advanced Turfgrass Management (3)
- HO431 Landscape Installation and Maintenance (3)
- HO445 Composting and Utilization in Horticultural Systems (3)
- HO450 Vineyard Operations (3)
- HO464 Advanced Horticulture Technologies (3)
- HO470 Regenerative Urban Agriculture (3)

**Additional Requirements:**

Some courses may fulfill General Education requirements.
- CH181 Basic Principles of Chemistry (5)
- OR
- CH185 General Chemistry (5)
- MA116 Pre-Calculus 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 U1100 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, and completion of 39 senior division hours (300-599). Refer to the Undergraduate Bulletin or Degree Works for additional graduation requirements for your program.