Agribusiness: Horticulture Option

Bachelor of Science (BS)

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 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.

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: Horticulture Option – 70 Hours – No Minor Required**

### Required Courses:
- **AC221 Principles of Accounting I (3)**
- **M101 Introduction to Computer Applications (3)**
- **OR**
- **AG208 Agriculture Business Data Analysis (3)**
- **AG320 Agribusiness Management (3)**
- **AG334 Agribusiness Finance (3)**
- **AG350 Marketing of Agriculture Products (3)**
- **AG455 Agriculture Internship (3)**
- **AG498 Undergraduate Research (3)**
- **AG470 Agribusiness Sales (3)**
- **AO120 Plant Science (3)**
- **AO125 Plant Science Lab (1)**
- **AY101 Animal Science (3)**
- **HO110 Introduction to Horticulture (3)**
- **U436 Agricultural Ethics (3)**

### Horticulture Option

#### Required Courses:
- **AO215 Soils (3)**
- **AO232 Weed Science (3)**
- **AO255 Practical Horticulture Experiences (2)**
- **AO255 Identification and Use of Deciduous Plants (2)**
- **AO255 Identification and Use of Evergreen Plants (2)**
- **AO255 Identification and Use of Irrigation and Tropical Plants (2)**
- **AO255 Identification and Use of Annual and Perennial Plants (2)**

#### Choose 14 Hours From:
- **AG551 Water Management (3)**
- **AO232 Weed Science (3)**
- **AO255 Practical Horticulture Experiences (2)** (repeatable up to 4 credits)
- **AO320 Alternative Agriculture (3)**
- **AO320 Nursery Administration and Culture (3)**
- **AO321 Advanced Plant Propagation (3)**
- **AO330 Strategic Landscape Design (3)**
- **AO342 Production of Horticultural Crops (3)**
- **AO444 Production of Greenhouse Management (4)**
- **AO455 Interior Planting (3)**
- **AO455 Advanced Turfgrass Management (3)**
- **AO455 Landscape Installation and Maintenance (3)**
- **AO545 Composting and Utilization in Horticulture Systems (3)**
- **AO545 Landscape Operations (3)**
- **AO464 Advanced Horticulture Technologies (3)**
- **AO470 Strategic Urban Horticulture (3)**

### Additional Requirements:
- Some courses may fulfill General Education requirements.
- **CH181 Basic Principles of Chemistry (5)**
- **CH185 General Chemistry (5)**
- **MA116 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

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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, 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.