Agribusiness is a challenging, rewarding, multi-faceted industry. From large multinational corporations to emerging food manufacturing and input supply firms, there is a strong demand by agribusiness firms for more and better employees trained in both management and the agricultural sciences.

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.

**Agribusiness: Horticulture students will...**

- Take a variety of agribusiness courses, such as: management, marketing, finance, sales, computer applications, accounting and economics.
- Take agriculture courses, such as horticulture crop production, greenhouse, nursery, and turfgrass management, viticulture, plant propagation, strategic urban horticulture, advanced horticulture technologies, soils, pest management, landscape design and plant pathology.
- Complete an internship or research project.
- Be prepared for positions in food horticulture, golf course/turfgrass and greenhouse management as well as sales, marketing, finance, policy, consulting and related areas.
- Be provided with a basis for graduate work leading to a master’s degree or doctorate.

**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**

- 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.
### Curricular Checklist

**Agribusiness: Horticulture 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)
- AG 245 Agricultural Economics (3)
- AG 250 Agribusiness Management (3)
- AG 334 Agribusiness Finance (3)
- AG 355 Agriculture Seminar (1)
- AG 447 Marketing of Agriculture Products (3)
- **AND**
- AG 465 Agriculture Internship (3)
- **OR**
- AG 469 Undergraduate Research (3)
- AG 470 Agribusiness Sales (3)
- AO 120 Plant Science (3)
- **AND**
- AO 125 Plant Science Lab (1)
- **AND**
- **AY** 101 Animal Science (3)
- **AND**
- HO 2110 Introduction to Horticulture (3)
- UI 436 Agricultural Ethics (3)

#### Horticulture Option

Required Courses:
- **AO** 215 Soils (3)
- AO 322 Plant Pathology (3)
- **HO** 215 Practical Horticulture Experiences (2)
- **HO** 225 Identification and Use of Deciduous Plants (2)
- **HO** 235 Identification and Use of Evergreen Plants (2)
- **HO** 245 Identification and Use of Ornamental and Tropical Plants (2)
- **HO** 255 Identification and Use of Annual and Perennial Plants (2)

Choose 14 Hours From:
- AG 551 Water Management (3)
- **AO** 322 Weed Science (3)
- **HO** 215 Practical Horticulture Experiences (2) (repeatable up to 4 credits)
- **HO** 310 Alternative Agriculture (3)
- **HO** 320 Nursery Administration and Culture (3)
- **HO** 321 Advanced Plant Propagation (3)
- **HO** 330 Strategic Landscape Design (3)
- **HO** 342 Production of Horticultural Crops (3)
- **HO** 350 Advanced Greenhouse Management (4)
- **HO** 355 Interior Plantcaping (3)
- **HO** 430 Advanced Turfgrass Management (3)
- **HO** 431 Landscape Installation and Maintenance (3)
- **HO** 445 Composting and Utilization in Horticultural Systems (3)
- **HO** 450 Vineyard Operations (3)
- **HO** 464 Advanced Horticulture Technologies (3)
- **HO** 470 Strategic Urban Horticulture (3)

#### Additional Requirements:
- Some courses may fulfill University Studies requirements.
- CH 181 Basic Principles of Chemistry (5)
- **OR**
- CH 185 General Chemistry (5)
- **MA** 116 Precalculus A (3)

#### University Studies Requirements

- 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 UI 100 for native students)

### Sample Four-Year Plan

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**SUMMER SESSION**
- AG 465 or AG 469,
- 3

*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.*