Agribusiness: Horticulture Option

Bachelor of Science (BS)

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. In fact, more than 90% of Southeast students participate in internships, clinical opportunities, student teaching, research assistantships, and study abroad.

Professional career counselors are available for all students. The Office of Career Services in Academic Hall 057 can provide students with professional career counseling, 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,
- 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).

**Special Options with Agribusiness: Horticulture**

The first two years of this program of study are available at the regional campuses (Kennett, Malden and Sikeston).

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**Demonstrated Career Proficiency is a Requirement of all Southeast Students**

<table>
<thead>
<tr>
<th>CL001/CL002</th>
<th>First Semester</th>
<th>Complete the FOCUS2 assessment and develop a Career Action Plan.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CL003</td>
<td>Junior Year</td>
<td>Students gain information about career planning and job searching resources.</td>
</tr>
<tr>
<td>CL004</td>
<td>Senior Year</td>
<td>Students demonstrate advanced proficiency by identifying a position in their field, developing a cover letter, and tailoring a resume for the position. Materials are critiqued to ensure preparedness for a successful job search.</td>
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</tbody>
</table>
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Bachelor of Science (BS)

This is a guide based on the 2016-2017 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 DegreeWorks to monitor their individual progress.

CURRICULUM CHECKLIST

Agribusiness Core – 38 hours – No Minor Required

__ AC221 Principles of Accounting I (3)
__ AND
__ AD101 Introduction to Microcomputer 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 (1)
__ AG447 Marketing of Agriculture Products (3)
__ AG465 Agriculture Internship (3)
OR
__ AG469 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)
__ UI436 Agricultural Ethics (3)

Horticulture Option – 30 hours

Required Courses:
__ AO215 Soils (3)
__ AO332 Plant Pathology (3)
__ HO215 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 Interscape and Tropical Plants (2)
__ HO255 Identification and Use of Annual and Perennial Plants (2)

Choose 14 Hours From:
__ AG551 Water Management (3)
__ AG322 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 Strategic Urban Horticulture (3)

Additional Requirements – 8 Hours Required

Some courses may fulfill University Studies requirements.
__ CH181 Basic Principles of Chemistry (5)
__ OR
__ CH185 General Chemistry (5)
__ MA134 College Algebra (3)

University Studies Requirements (not already listed above):
__ UI100 First Year Seminar, EN100 English Composition, Artistic Expression, Written Expression, Oral Expression, Literary Expression, Behavioral Systems, Development of a Major Civilization, Economic Systems, Political Systems, Social Systems, and two IU/UI3xxs

SAMPLE FOUR-YEAR PLAN

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<tr>
<th></th>
<th>Fall Semester</th>
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<td>Course #</td>
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<td><strong>Total</strong></td>
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<tr>
<td>AG465 or AG469</td>
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<td><strong>SUMMER SESSION</strong></td>
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Degree requirements for all students: a minimum of 120 credit hours, completion of University Studies program, career proficiencies (CL001-004), 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 DegreeWorks for additional graduation requirements (i.e. minimum GPA and coursework) for your program of study.