

# Agribusiness: Horticulture Option

Bachelor of Science (BS)

# Horticulture Option

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.

Demonstrated Career Proficiency is a Requirement of all Southeast Students		
CL001/CL002	First Semester	Complete the FOCUS2 assessment and develop a Career Action Plan.
CL003	Junior Year	Students gain information about career planning and job searching resources.
CL004	Senior Year	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.

## 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>.

## Special Options with Agribusiness: Horticulture

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

**To learn more**  
Office of Admissions  
(573) 651-2590  
admissions@semo.edu  
www.semo.edu

**To explore the College of Science, Technology, and Agriculture online, visit**  
www.semo.edu/costa

**For advising**  
College of Science, Technology and Agriculture  
Advising Center (573) 651-5930  
costaadvising@semo.edu  
www.semo.edu/costa/advising

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This is a guide based on the 2015-2016 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

- \_\_\_ 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)
- \_\_\_ 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
- \_\_\_ AG 469 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)
- \_\_\_ AO323 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 Interiorscape 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 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

	Fall Semester		Spring Semester	
	Course #	Hrs	Course #	Hrs
<b>FIRST YEAR</b>	UI100	3	EN100	3
	AO120/125	4	AD101 or AG208	3
	AY101	3	AG245	3
	HO110	3	HO245	2
	HO225	2	HO255	2
	HO235	2	MA134	3
<b>Total</b>	<b>17</b>		<b>Total</b>	<b>16</b>
<b>SECOND YEAR</b>	CH181 or CH185	5	AC221 or AG381	3
	HO215	2	AG250	3
	Literary Expression	3	AO215/015	3
	Written Expression	3	Artistic Expression	3
		3	Behavioral Systems	3
	<b>Total</b>	<b>13</b>	<b>Total</b>	<b>15</b>
<b>THIRD YEAR</b>	Horticulture Elective	3	AG334	3
	Horticulture Elective	3	Horticulture Elective	3
	Dev Major Civilization	3	Oral Expression	3
	Economic Systems	3	IU/UI 3xx	3
	Political Systems	3		
	<b>Total</b>	<b>15</b>	<b>Total</b>	<b>12</b>
<b>FOURTH YEAR</b>	AG447	3	AG355	1
	AO323	3	AG470	3
	Horticulture Elective	3	UI436	3
	IU/UI3xx	3	Horticulture Elective	2
	Electives	4	Social Systems	3
	<b>Total</b>	<b>16</b>	<b>Total</b>	<b>13</b>
<b>SUMMER SESSION</b>			AG465 or AG469	3

**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.

Revised  
3/24/2015