

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
Center for Academic Advising - North
(573) 651-5090
www.semo.edu/advising
advisingnorth@semo.edu

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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**

- ___ 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
FIRST YEAR	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
Total	17		Total	16
SECOND YEAR	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
	Total	13	Total	15
THIRD YEAR	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		
	Total	15	Total	12
FOURTH YEAR	AG447	3	AG355	1
	AO323	3	AG470	3
	Horticulture Elective	3	UI436	3
	IU/UI3xx	3	Horticulture Elective	2
	Electives	4	Social Systems	3
	Total	16	Total	13
SUMMER SESSION			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
2/23/2016

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