



Agribusiness: Horticulture Option

Bachelor of Science (BS)

Horticulture Option

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 Hutson Horticulture Greenhouse
- Charles Nemanick Alternative Agriculture Garden
- Sikeston Irrigation Field
- With individual faculty and 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.



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

To explore
the College of Science,
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For advising
Center for Academic Advising
semo.edu/advising

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This is a guide based on the 2021-2022 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 Degree Works to monitor their individual progress.

CURRICULUM CHECKLIST

Agribusiness: Horticulture Option – 71 Hours – No Minor Required**Required Courses:**

- ___ AG 111 Agribusiness Orientation (1)
- ___ AG 140 Communicating in Agriculture (3)
- ___ AG 208 Agriculture Bus Data Analysis (3)
- ___ AG 245 Agricultural Economics (3)
- ___ AG 250 Agribusiness Management (3)
- ___ AG 334 Agribusiness Finance (3)
- ___ AG 340 Agriculture Safety (3)
- ___ AG 355 Agriculture Seminar (2)
- ___ AG 381 Agribusiness Management II (3)
- OR
- ___ AC 221 Principles of Accounting I (3)
- ___ AG 447 Mktg of Agri Products (3)
- ___ AG 465 Agriculture Internship (3-6)

OR

- ___ AG 469 Undergrad Research (3)
- ___ AG 470 Agribusiness Sales (3)
- ___ AO 120 Plant Science (3)
- ___ AO 125 Plant Science Lab (1)
- ___ AY 101 Animal Science (3)
- ___ HO 110 Intro to Horticulture (3)

Horticulture Option**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 Landscaping (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 Hydroponics and Horticulture Technologies (3)
- ___ HO470 Regenerative Urban Agriculture (3)
- ___ UI436 Agricultural Ethics (3)

Additional Requirements:

Some courses may fulfill General Education requirements.

- ___ CH 181 Basic Principles of Chemistry (5)
- OR
- ___ CH 184/185 General Chemistry I and Lab (4)
- ___ MA 116 Precalculus A (3)
- OR
- ___ MA 155 Statistical Reasoning (3)

General Education Requirements – some requirements may be fulfilled by coursework in major program

- 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

SAMPLE FOUR-YEAR PLAN

▶	Fall Semester		Spring Semester	
	Course #	Hrs	Course #	Hrs
FIRST YEAR	UI100	1	EN100	3
	AO120/125	4	AG111	1
	AY101	3	AG208	3
	HO110	3	AG245	3
	HO225	2	HO245	2
	HO235	2	HO255	2
			MA116 or MA155	3
	Total	15	Total	17
SECOND YEAR	CH181 or CH184/185	4-5	AC221 or AG381	3
	HO215	2	AG140	3
	General Education	3	AG250	3
	General Education	3	AO215/015	3
			General Education	3
	Total	12-13	Total	15
THIRD YEAR	Horticulture Elective	3	AG334	3
	Horticulture Elective	3	Horticulture Elective	3
	General Education	3	General Education	3
	General Education	3	General Education	3
	General Education	3	Elective	3
	Total	15	Total	15
FOURTH YEAR	AG447	3	AG355	2
	AO323	3	AG470	3
	Horticulture Elective	3	Horticulture Elective	2
	Elective	3	General Education	3-4
	Elective	3	Elective	3
	Total	15	Total	13-14
SUMMER SESSION			AG465 or AG469	3

Degree requirements for all students: a minimum of 120 credit hours, completion of the General Education program, and completion of 39 senior division hours (300-599). Refer to the Undergraduate Bulletin or Degree Works for additional graduation requirements for your program.

Revised
6/15/2021

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

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the College of Science,
Technology, Engineering and
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