

Agribusiness: Agriculture Systems Management Option

Bachelor of Science (BS)

Agriculture Systems Management Option

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

The BS in Agribusiness/Agriculture Systems Management prepares students for position in agricultural facilities management and operations for grain facilities and terminals, farm services, food processing facilities, and precision production agriculture. It can also provide the basis for graduate work leading to a MS, or PhD. This option is designed for students who complete all four years at Southeast and for students transferring to Southeast with an AA degree.

Major students will...

- Plan and manage machinery systems, building infrastructure, and soil and water resources used in the sustainable production of food, fiber and energy incorporating appropriate safety, environmental, legal and economic constraints
- Implement and follow the business principles and ethical practices necessary to build and maintain a viable farm or agribusiness
- Function effectively in a global society both as a team member and a leader interacting successfully with agricultural industry professionals, government officials, and an ethnically and culturally diverse public
- Become an accomplished professional in agriculture and related industries who continuously updates his or her technical and management skills and serves relevant industry association and organizations
- Contribute technical, management and leadership skills to community activities, organizations and charities

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 Options

- Product Education – Use and Value
- Technical Assistance and Troubleshooting
- Technical Product Development, Testing, Application, and Sales
- Farm & Agribusiness Management
- Coordinating, Directing and Supervising Manufacturing and Processing Operations
- Building and Equipment Layout, Use (Materials Handling, Flow, Processing)
- Operations Manager and/or Supervisor
- Production Manager and/or Supervisor
- Product Quality Control Manager
- Financial Analyst and/or Advisor
- Research Analyst
- Insurance Agent
- Loan Officer
- GIS Specialist
- Water Resource Specialist
- Engineering Technician

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
- Missouri Rice Research Farm
- Charles Nemanick Alternative Agriculture Garden
- With individual faculty and members on projects

For more information on the facilities, visit <http://www.semo.edu/agriculture/facilities.htm>

Transfer Students

Transfer students should consult the Transfer Handbook developed by Southeast and your community college for a suggested program of study appropriate for your situation, or consult with your Southeast advisor.

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This is a guide based on the 2018-2019 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 – 70 hours – No Minor Required

- ___ AC 221 Principles of Accounting I (3)
And
- ___ AD 101 Introduction to Microcomputer Applications (3)
OR
- ___ AG 208 Agribusiness 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)
- ___ AG 465 Agriculture Internship (3)
OR
- ___ AG 469 Undergraduate 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 Introduction to Horticulture (3)
- ___ UI 436 Agricultural Ethics (3)

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- ___ AG 303 Agriculture Mechanization (3)
 - ___ AO 215 Soils (3)
 - ___ MA 223 Elementary Probability and Statistics (3)
 - ___ MI 375 Management Information Systems (3)
 - ___ PH 120 Introductory Physics (5)
- Choose one course:
- ___ AG 327 Sustainable Agriculture (3)
 - ___ AG 440 Precision Agriculture (3)
 - ___ AO 401 Agriculture and Natural Resource Management (3)

Choose one course:

- ___ AG 444 Spatial Analysis in GIS (3)
- ___ AG 551 Water Management (3)

Choose 9 hours of ET prefix courses OR 9 hours of FM prefix courses:

- ___ ET 160 Basic Electricity & Electronics (3)
- ___ ET 365 Industrial Electrical Power (3)
- ___ ET 470 Energy Management
- ___ FM 504 Facilities Management (3)
- ___ FM 554 Facilities Operations and Supervision (3)
- ___ FM 565 Building Automation and Technology (3)

Additional Requirements:

- ___ CH181 Basic Principles of Chemistry (5)
OR
- ___ CH185 General Chemistry (5)
- ___ MA116 Precalculus A (3)

University Studies Requirements – some requirements may be fulfilled by coursework in major program

- 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 UI100 for native students)

SAMPLE FOUR-YEAR PLAN

	Fall Semester		Spring Semester	
	Course #	Hrs	Course #	Hrs
FIRST YEAR	UI 100	3	AG 245	3
	EN 100	3	HO 110	3
	AO 120/125	4	MA 223	3
	AY 101	3	University Studies	3
	MA 116	3	University Studies	3
	Total	16	Total	15
SECOND YEAR	AD101 or AG 208	3	AG 250	3
	CH 181/081/001 or CH 185/085/005	5	ETxxx or FMxxx	3
	ETxxx or FMxxx	3	PH 120/020	5
	University Studies	3	University Studies	3
	Total	14	Total	14
THIRD YEAR	AC 221 or AG 381	3	AO 215/015	3
	AG 303	3	MI 375	3
	AG 334	3	ETxxx or FMxxx	3
	University Studies	3	University Studies	3
	Elective*	3	Elective	3
	Total	15	Total	15
FOURTH YEAR	AG 327/AG 444/AO 401	3	AG 355	3
	AG 440/AG 551	3	AG 470	1
	AG 447	3	UI 436	3
	University Studies	3	University Studies	3
	University Studies	3	Elective**	3
	Total	15	Total	13
SUMMER SESSION			AG465 or AG469	3

*ET381 recommended

**AY320 recommended

Degree requirements for all students: a minimum of 120 credit hours, completion of University Studies program, career proficiencies, Writing Proficiency Exam (WP003), and completion of the Measure of Academic Proficiency and Progress (MAPP) at the senior level. A minimum 2.0 GPA in the major and overall are required to graduate with a BS degree. Refer to the Undergraduate Bulletin or DegreeWorks for additional graduation requirements (i.e. minimum GPA and coursework) for your program of study.