

The University of Tennessee at Martin
Bachelor of Science in Agriculture (with a major in General Agriculture)
Agricultural Business Concentration
Farm and Ranch Management Option (program 1126) and
Farm and Ranch Management Option – Online (program 1126-OL)

Overview

To help American farmers respond to the increasing demand for agricultural products, at home and abroad, a major industry known as agribusiness has developed. The farm and ranch management option is designed for students who are interested in the applied aspects of the agricultural industry. Farm and ranch management offers students the flexibility to be exposed to various components of the agriculture complex to better understand and make sound technical decisions in response to an ever-changing demand for agricultural products.

As agriculture is becoming more and more technical and business more sophisticated, it is essential that students receive training in both agriculture and business. In the farm and ranch management program, technical agriculture and agricultural economics are taught in the College of Agriculture and Applied Sciences, and most business techniques are taught in the College of Business and Global Affairs.

Career Opportunities

The program prepares students for careers with industry or government. Farm and ranch management students take a core of agribusiness courses alongside a broad selection of agriculture and natural resource management courses. This flexibility allows students to take a variety of course offerings from multiple areas within agriculture. The curriculum can be structured to prepare students for admission to graduate school in either agriculture economics or business administration.

The production of food and fiber, processing them, and transporting the final products to the world's people is the largest enterprise on earth. Everyone everywhere depends on agriculture and thus in some way on agri-business. Colleges of agriculture throughout the country recognize the necessity for trained individuals in the complex fields of agricultural business. It is estimated that nearly 50,000 jobs related to agriculture become available each year and many of them are related to agricultural business.

Some of the many career opportunities available for farm and ranch management graduates include those in agricultural chemical sales, feedlot manager, farm manager, farm equipment sales, government services, financial services, market analyst, grain and feed industries, transportation, foreign trade, precision agriculture, agricultural communications and the Cooperative Extension Service.

Facilities

Modern agricultural laboratories, classrooms and computer laboratories located in Brehm Hall and the Ned R. McWherter Agricultural Pavilion are available for student use. Field trips are made to nearby industries and farms to observe and learn their operating procedures.

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Course Requirements: BS in Agriculture – Ag Business Concentration – Farm & Ranch Management Option (1126)

Fine Arts (3 hours) *Select One*

ART 110	Understanding Visual Arts	___/3
ARTH 210	The History of Art	___/3
ARTH 211	The History of Art	___/3
DANC 110	Understanding Dance	___/3
MUS 111	Masterpieces of Music	___/3
MUS 112	Music in Our Time	___/3
MUS 113	Western Masterpieces	___/3
MUS 114	Historical Survey of Jazz	___/3
MUS 115	Music for the Masses	___/3
THEA 110	Understanding Theatre	___/3
THEA 111	Understanding Theatre	___/3

MATH 185	Precalculus	___/5
MATH 251	Calculus I	___/3

Social Dynamics (6 hours)

ECON 201	Principles of Macroeconomics	___/3
ECON 202	Principles of Microeconomics	___/3

Ag Core (9 hours)
**No more than 9 upper-division transfer hours may be used toward a UT Martin degree*

AGEC 110	Introduction to Agricultural Business	___/3
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Select 6 hours

ANSC 110	Introduction to Animal Science	___/3
PLSC 110	Introductory Plant & Soil Science	___/3
AGET 110	Introduction to Agricultural Engineering	___/3
AGRI 390	Career Planning in Agriculture	___/2
SOIL 210	Soil Science	___/4

Biological & Physical Systems (8 hours) *Select two*

ASTR 201	Astronomy: Theories of the Solar System	___/4
ASTR 202	Astronomy: Evolution of Stars	___/4
BIOL 110	Intro: Cell & Genetics	___/4
or BIOL 140	Foundations: Cell & Molecular	___/4
BIOL 120	Intro: Plant & Animal	___/4
or BIOL 130	Foundations: Ecology, Evolution, & Diversity	___/4
CHEM 111	Intro: General & Inorganic	___/4
CHEM 112	Intro: Organic & Biochemistry	___/4
CHEM 121	General Chemistry	___/4
CHEM 122	General Chemistry	___/4
GEOL 110	Intro: Physical Geology	___/4
GEOL 120	Environmental Geology	___/4
PHYS 101	Physics in Everyday Life	___/4
PHYS 102	Physics in Everyday Life	___/4
PHYS 211	College Physics	___/4
PHYS 212	College Physics	___/4
PHYS 220	University Physics	___/4
PHYS 221	University Physics	___/4
ZOOL 201	Human Anatomy & Physiology	___/4
ZOOL 251	Human Anatomy & Physiology I	___/4

Agricultural Business (31 hours)

AGEC 250	Introduction to Agricultural Sales	___/3
AGEC 271	Farm Management	___/3
AGEC 325	Agriculture & Natural Resources Policy	___/3
AGEC 335	International Agricultural Trade	___/3
AGEC 364	Agricultural Marketing	___/3
AGEC 370	Agricultural Price Analysis	___/3
AGEC 371	Adv. Farm & Ranch Management	___/3
AGEC 372	Adv. Farm & Ranch Management Lab	___/1
AGEC 410	Spreadsheet Analysis in Agribusiness	___/3
AGEC 415	Agricultural Futures & Options	___/3
AGEC 465	Agricultural Finance	___/3

Ag/NRM Electives (24 hours from AGECE, AGED, AGET, AGRI, ANSC, NRM, PARK, PLSC, SOIL, WBIO, VET, FRP)
 A Maximum of 9 hours can be selected from: Special Problems, Practicum, Research Participation, Supervised Field Experience, or International Travel Study

Communications (9 hours)

ENGL 111	English Composition (Must earn a C or better)	___/3
ENGL 112	English Composition (Must earn a C or better)	___/3
COMM 230	Public Speaking	___/3

_____	___/3
_____	___/3
_____	___/3
_____	___/3
_____	___/3
_____	___/3
_____	___/3
_____	___/3

Humanities (9 hours) *Select three*

ENGL 250	British Literature	___/3
ENGL 251	British Literature	___/3
ENGL 260	American Literature	___/3
ENGL 261	American Literature	___/3
ENGL 270	World Literature	___/3
ENGL 271	World Literature	___/3
FREN 250	France Today	___/3
GERM 250	Germany Today	___/3
HIST 121	World Civilization I	___/3
HIST 122	World Civilization II	___/3
HIST 201	History of the U.S. I	___/3
HIST 202	History of the U.S. II	___/3
JAPN 250	Japan Today	___/3
PHIL 110	Adventure of Ideas: Historical	___/3
PHIL 120	Adventure of Ideas: Contemporary	___/3
PHIL 130	Ethics and Race	___/3
PHIL 160	Exploring Ethics	___/3
SPAN 250	Latin America Today	___/3

General Electives (18 hours)

_____	___/
_____	___/
_____	___/
_____	___/
_____	___/
_____	___/

Mathematics (3 hours) *Select one*

MATH 140	College Algebra & Elementary Function	___/3
MATH 160	Calculus for Business & Life Sciences	___/3

**B.S. in Agriculture
Agricultural Business – Farm and Ranch Management
2017-2018**

Freshman Fall	
General Studies 101	2
ENGL 111	3
Ag Core Elective	3
Humanities Elective	3
AGEC 110	3
Semester Total	14

Freshman Spring	
Fine Arts Elective	3
Humanities Elective	3
English 112	3
Ag Core Elective	3
Math 140	3
Semester Total	15

Sophomore Fall	
COMM 230	3
ECON 201	3
BIOL/PHYS Sci. Elective	4
AGEC 250	3
AGEC 271	3
Semester Total	16

Sophomore Spring	
ECON 202	3
BIOL/PHYS Sci. Elective	4
AGEC 371 & 372	4
General Elective	3
AG Elective	3
Semester Total	17

Junior Fall	
AG Elective	3
General Elective	3
AGEC 325	3
AGEC 335	3
AGEC 364	3
Semester Total	15

Junior Spring	
Humanities Elective	3
General Elective	3
AGEC 410	3
General Elective	3
AGEC 370	3
Semester Total	15

Senior Fall	
General Elective	3
AGEC 415	3
Ag Elective	3
Ag Elective	3
Ag Elective	3
Semester Total	15

Senior Spring	
General Elective	3
Ag Elective	3
Ag Elective	3
Ag Elective	3
AGEC 465	3
Semester Total	15