

Agribusiness Management and Applied Economics, B.S.

Degree Offered

- Bachelor of Science

Nature of the Program

The goal of this major is to provide students with a breadth of knowledge that will prepare them for employment in the fields of food, agricultural, or environmental & natural resource economics. This major opens doors to a range of career paths from entrepreneurship and joining family-owned businesses, to working in the banking/finance sector, to being hired by state or federal agencies, or to seeking employment in large food or agribusiness firms. Students will work with their advisors to select an AOE and restricted electives that meets their goals. The Agribusiness Management AOE gives students a background in accounting, marketing, sales, strategic management, and new venture creation such that they will gain practical prowess to excel in agricultural and food-related businesses. The objective of the Environmental and Natural Resource Economics AOE is to provide students with the necessary training for the application of economic theory and analysis to environmental and natural resource issues to prepare them for careers as analysts, in government, or to continue to graduate school.

General Education Foundations

Please use this link to view a list of courses that meet each GEF requirement. (<http://registrar.wvu.edu/gef/>)

NOTE: Some major requirements will fulfill specific GEF requirements. Please see the curriculum requirements listed below for details on which GEFs you will need to select.

Code	Title	Hours
General Education Foundations		
F1 - Composition & Rhetoric		3-6
ENGL 101 & ENGL 102 or ENGL 103	Introduction to Composition and Rhetoric and Composition, Rhetoric, and Research Accelerated Academic Writing	
F2A/F2B - Science & Technology		4-6
F3 - Math & Quantitative Reasoning		3-4
F4 - Society & Connections		3
F5 - Human Inquiry & the Past		3
F6 - The Arts & Creativity		3
F7 - Global Studies & Diversity		3
F8 - Focus (may be satisfied by completion of a minor, double major, or dual degree)		9
Total Hours		31-37

Please note that not all of the GEF courses are offered at all campuses. Students should consult with their advisor or academic department regarding the GEF course offerings available at their campus.

Degree Requirements

Code	Title	Hours
	University Requirements	41
	Agribusiness Management and Applied Economics Major Requirements	79
Total Hours		120

University Requirements

Code	Title	Hours
	General Education Foundations (GEF) 1, 2, 3, 4, 5, 6, 7, and 8 (31-37 Credits)	
	Outstanding GEF Requirements 1, 2, 5, 6, 7, and 8	22
ANRD 191	First-Year Seminar	1

General Electives	18
Total Hours	41

Agribusiness Management and Applied Economics Major Requirements

Code	Title	Hours
Minimum GPA of 2.0 is required in all Agribusiness Management and Applied Economics Major Requirements.		
AGEE 110 or CS 101	Microcomputer Applications in Agricultural Education Intro to Computer Applications	3
ARE 150 or ECON 201	Introductory Agricultural and Agribusiness Economics (GEF 4) Principles of Microeconomics	3
ECON 202	Principles of Macroeconomics (GEF 8)	3
ARE 204	Agribusiness Management	3
ARE 220	Introductory Environmental and Resource Economics (GEF 8)	3
STAT 111 or STAT 211	Understanding Statistics (GEF 3; ENRE AOE must take STAT 211) Elementary Statistical Inference	3
Intermediate Theory and Analysis		
Select two of the following:		6
ECON 301	Intermediate Micro-Economic Theory	
ECON 302	Intermediate Macro-Economic Theory	
ARE 406	Applied Quantitative Methods	
ARE 462	Records and Analysis for Sustainable Agribusinesses	
ARE 440	Futures Markets and Commodity Prices	
Law & Policy		
Select two of the following:		6
ARE 382	Agricultural and Natural Resources Law	
ARE 482	Enterprise Operation Law	
RESM 450	Land Use Planning Law	
ARE 450	Agriculture, Environmental and Resource Policy	
ARE 488	Career Development	1
Capstone Experience:		3
ARE 491 or ARE 496	Professional Field Experience Senior Thesis	
Area of Emphasis		18
Agribusiness Management		
Environmental and Natural Resource Economics		
Restricted Electives (12 hours must be upper-division)		27
The restricted electives must be selected in consultation with the advisor, and selected from the list below. A minor and/or second AOE can be used to satisfy restricted elective courses.		
Upper-division (300-400 level) courses from the following subjects: ADV, AGBI, AGEE, ARE, AGRN, ANNU, ANPH, ANPR, A&VS, AEM, BCOR, BIOL, COMM, DSGN, ECON, ENLM, ENTO, ENTR, ENVP, FIN, FDST, FMAN, FOR, GEOG, GEOL, HORT, HN&F, LARC, LDR, MKTG, PLSC, POLS, PSYC, PR, RPTR, RESM, SOCA, WMAN, WGST, and WDSC.		
STAT at 200-level or higher.		
AGEE 220	Group Organization and Leadership	
ANNU 260	Animal Nutrition	
A&VS 251 & 251L	Principles of Animal Science and Principles of Animal Science Laboratory	
A&VS 281	Introduction to Equine Care and Use	
DSGN 280	Sustainable Design and Development	
ESWS 202 & 202L	Principles of Soil Science and Principles of Soil Science Laboratory	
FDST 200	Food Science and Technology	
HORT 220 & 220L	General Horticulture and General Horticulture Laboratory	

PLSC 206 & 206L	Principles of Plant Science and Principles of Plant Science Laboratory	
POLS 210	Law and the Legal System	
Total Hours		79

Suggested Plan of Study

First Year

Fall	Hours	Spring	Hours
ARE 150 (GEF 4)		3 STAT 111 (GEF 3)	3
ENGL 101 (GEF 1)		3 AGEE 110 or CS 101	3
GEF 5, 6, or 7		3 GEF 5, 6, or 7	3
GEF 2		4 GEF 5, 6, or 7	3
ANRD 191		1 General Elective	3
General Elective		1	
		15	15

Second Year

Fall	Hours	Spring	Hours
ARE 204		3 ECON 202 (GEF 8)	3
ARE 220 (GEF 8)		3 Intermediate Theory and Analysis Course	3
ENGL 102 (GEF 1)		3 Restricted Elective	3
Restricted Elective		3 General Elective	3
General Elective		3 GEF 8	3
		15	15

Third Year

Fall	Hours	Spring	Hours
ARE 488		1 Intermediate Theory and Analysis Course	3
Law & Policy Course		3 AOE Course	3
AOE Course		3 AOE Course	3
Restricted Elective		3 Restricted Elective	3
General Elective		3 Restricted Elective	3
General Elective		2	
		15	15

Fourth Year

Fall	Hours	Spring	Hours
AOE Course		3 AOE Course	3
AOE Course		3 Law & Policy Course	3
Restricted Elective		3 Restricted Elective	3
Restricted Elective		3 Restricted Elective	3
ARE 491		3 General Elective	3
		15	15

Total credit hours: 120

Areas of Emphasis

- Agribusiness Management (p. 3)
- Environmental and Natural Resource Economics (p. 4)

Agribusiness Management Area of Emphasis

Code	Title	Hours
ARE 110	Agribusiness Accounting	3
ARE 380	Agribusiness Sales and Management	3
ARE 422	New Venture Creation	3

Select one of the following:		3
ARE 431	Marketing Agricultural Products	
ARE 435	Marketing Livestock Products	
ARE 461	Agribusiness Finance	3
ARE 484	Agribusiness Strategic Management	3
Total Hours		18

Environmental and Natural Resource Economics Area of Emphasis

Code	Title	Hours
MATH 150	Applied Calculus	3
ARE 410	Environmental and Resource Economics	3
RESM 440 & 440L	Foundations of Applied Geographic Information Systems and Foundations of Applied Geographic Information Systems Laboratory	3
RESM 480	Environmental Regulation	3
ARE 485	Economics of Water Resources and Energy	3
Select one of the following:		3
ECON 421	Introduction to Mathematical Economics	
ECON 425	Introductory Econometrics	
Total Hours		18

Major Learning Outcomes

AGRIBUSINESS MANAGEMENT AND APPLIED ECONOMICS

After completing this major students will be able to:

1. Explain the major concepts in economics, management, law, and policy as applied to agribusiness and/or environmental & natural resource economics.
2. Communicate effectively in a business or professional setting (written and oral).
3. Synthesize knowledge from across the curriculum to solve management and economic questions.
4. Demonstrate proficiency in the application of relevant software and quantitative techniques.
5. Work cooperatively within a business or professional setting.