

FOOD AND HEALTH SYSTEMS ECONOMICS MAJOR

Program Curriculum

Code	Title	Credits
Degree Core Requirements		
AAEC 2434	Foundations of Agribusiness ¹	3
AAEC 3004	Agricultural Production and Consumption Economics ¹	3
AAEC 3024	Monetary and Global Issues in Applied Economics ¹	3
AAEC 3014	Analytical Methods in Applied Economics ^{1,2}	3
AAEC 3015	Internship in Agricultural and Applied Economics	1
ACIS 2115	Principles of Accounting	3
ENGL 3774	Business Writing ^{1,3}	3
Subtotal		19
Major Requirements		
APSC 1454	Introduction to Animal and Poultry Science ¹	3
AAEC 3504	Marketing Agricultural Products ¹	3
AAEC 4504	Agricultural Price and Market Analysis ¹	3
AAEC 4814	Food and Health Economics ¹	3
SPES 2244	World Crops: Food and Culture	3
ECON 4214	Economics of Health Care ¹	3
AAEC 3424	Value-Based Management in Agribusiness ^{1,4}	3
FST 2014	Introduction to Food Science	2
HNFE 1004	Foods, Nutrition And Exercise	3
PHS 2004	Introduction to Public Health	3
Select one of the following:		3
APSC 3134	Animal Agriculture and the Environment	
CSES 2244	Agriculture, Global Food Security and Health	
FST 2244	Topics in Food Science and Technology ¹	
HNFE 2544	Functional Foods for Health	
PHS 3014	Introduction to Environmental Health	
Select one of the following:		3
AAEC 3314	Environmental Law	
AAEC 3604	Agricultural Law	
AAEC 3454	Small Business Management and Entrepreneurship ¹	
ACIS 1504	Introduction to Business Analytics and Business Intelligence	
Subtotal		35
Capstone Course		
Select one of the following:		3
AAEC 4404	Agricultural Management and Problem-solving ¹	
AAEC 4414	Applied Economic Problem-Solving ¹	
PHS 4054	Concepts in One Health ¹	
Subtotal		3
Area of Specialization		

AAEC advisor must approve area of specialization courses and the student must file an area of specialization form with the AAEC undergraduate office. Students should consider minors or double majors. At least 9 hours must be at the 3000 level or higher (unless noted otherwise for a minor in another academic department). Students majoring in Agribusiness are not eligible to minor in any of the AAEC minors. ⁶

Subtotal 18

Pathways to General Education

Some Pathways courses may also fulfill departmental requirements, but the credit hours may not be counted twice.

Pathways Concept 1 - Discourse

ENGL 1105 First-Year Writing (1F) 3

ENGL 1106 First-Year Writing (1F) 3

COMM 2004 Public Speaking (1A) 3

or ALCE 3634 Communicating Ag and Life Sciences in Speaking

Pathways Concept 2 - Critical Thinking in the Humanities

Select two courses in Pathway 2 (https://catalog.vt.edu/course-search/?attrs_pathways=attrs_pathways_G02) 6

Pathways Concept 3 - Reasoning in the Social Sciences

AAEC 1005 Economics of the Food and Fiber System 3

AAEC 1006 Economics of the Food and Fiber System ⁷ 3

Pathways Concept 4 - Reasoning in the Natural Sciences

Select two lecture courses in Pathway 4 (https://catalog.vt.edu/course-search/?attrs_pathways=attrs_pathways_G04) 6

Pathways Concept 5 - Quantitative and Computational Thinking

MATH 1025 Elementary Calculus (5F) 3

Select one of the following: 3

MATH 1026 Elementary Calculus (5F) ⁸

CS 1014 Introduction to Computational Thinking (5F)

CS 1064 Introduction to Programming in Python (5F)

FREC 1004 Digital Planet (5F)

STAT 1014 Data in Our Lives (5F)

STAT 3615 Biological Statistics (5A) ^{1,9} 3

Pathways Concept 6 - Critique and Practice in Design and the Arts

Select three hours in Pathway 6d (https://catalog.vt.edu/course-search/?attrs_pathways=attrs_pathways_G06D) 3

Select three hours in Pathway 6a (https://catalog.vt.edu/course-search/?attrs_pathways=attrs_pathways_G06A) 3

Pathways Concept 7 - Critical Analysis of Identity and Equity in the United States

Select three hours in Pathway 7 (https://catalog.vt.edu/course-search/?attrs_pathways=attrs_pathways_G07) 3

Subtotal 45

Total Credits 120

¹ Some courses required for this major have pre-/co-requisites and/or enrollment requirements. Please refer to the Undergraduate Course Catalog or consult your advisor for information about pre-/co-requisites and enrollment requirements.

² Or BIT 2406 Introduction to Business Statistics, Analytics, and Modeling, or STAT 3006 Statistical Methods, or STAT 3616 Biological Statistics

³ Or take ENGL 3764 Technical Writing, or ENGL 3754 Advanced Composition, or ALCE 3624 Communicating Ag and Life Sciences in Writing.

⁴ Or FIN 3104 Introduction to Finance or ACIS 2116 Principles of Accounting.

⁵ May also take BSE 4344 Geographic Information Systems for Engineers.

⁶ AAEC minors: Agribusiness Management and Entrepreneurship (ABMN), Environmental Economics (ENMN), Development and International Trade (ITMN), and Agricultural and Applied Economics (AEMN).

⁷ Or take ECON 2005 Principles of Economics-ECON 2006 Principles of Economics

⁸ Or take MATH 1225 Calculus of a Single Variable-MATH 1226 Calculus of a Single Variable. Students considering graduate school in applied economics are encouraged to take MATH 1225 Calculus of a Single Variable-MATH 1226 Calculus of a Single Variable.

⁹ Or STAT 3005 Statistical Methods or BIT 2405 Introduction to Business Statistics, Analytics, and Modeling

Notes:

Pre-requisites: Some courses required for this major have pre-/co-requisites and/or enrollment requirements. Please refer to the Undergraduate Course Catalog or consult your advisor for information about pre-/co-requisites and enrollment requirements.

Program Total Hours: 120 credit hours required for graduation with this degree.

Foreign Language Requirement: Students who do not successfully complete at least two units of a single foreign language, classical language or American Sign Language during high school must successfully complete six semester hours of a single college level foreign or classical language at the college level. Such semester hours are in addition to those normally required for graduation. Please see the Undergraduate Catalog for details.

GPA: In major calculation is from all AAEC and ECON classes taken. An overall GPA of at least 2.0 is required to meet the University's minimum standard for good academic standing. Overall and in-major GPA's of at least 2.00 are required for graduation.

Satisfactory progress: By the end of the academic year in which the student has attempted 72 hours (including transfer, advanced placement, advanced standing and credit by examination), "satisfactory progress" will consist of

1. an overall GPA of at least 2.0;
2. at least 30 credits that apply to the Pathways to General Education, and
3. 9 semester credits of departmental requirements.