

Virginia Polytechnic Institute & State University
College of Agriculture & Life Sciences
Bachelor of Science in Applied Economic Management
Food and Health Systems Economics Major (FHSE)

For Students Graduating in Calendar Year 2022 and Date of Entry under UG Catalog 2020-2021

Part I. UNIVERSITY, COLLEGE, AND DEPARTMENT PATHWAYS*

* The total number of credit hours will vary depending upon whether Pathways courses are used to meet specific requirements in Part II. Some Pathways courses may also fulfill departmental requirements, but the credit hours may not be counted twice.

Pathways Concepts (45 hours):

Concept 1 - Discourse – Foundational	ENGL 1105-1106	3 ____	3 ____
Discourse – Advanced	COMM 2004	3 ____	
Concept 2 – Critical Thinking in the Humanities	Any Concept 2 Courses	3 ____	3 ____
Concept 3 – Reasoning in the Social Sciences	AAEC 1005, 1006 ¹	3 ____	3 ____
Concept 4 – Reasoning in the Natural Sciences	Any Concept 4 Lecture Courses	3 ____	3 ____
Concept 5 – Quantitative & Computational Thinking-Foundational	MATH 1025	3 ____	
Foundational	MATH 1026 ² or CS 1014 or CS 1064 or FREC 1004 or STAT 1014	3 ____	
Quantitative & Computational Thinking-Advanced	*STAT 3615 ³	3 ____	
Concept 6 – Critique & Practice in Design and the Arts-Design	Any Concept 6 Design Course	3 ____	
Critique & Practice in Design and the Arts-Arts	Any Concept 6 Arts Course	3 ____	
Concept 7 – Critical Analysis of Identity & Equity in the US	Any Concept 7 Course	3 ____	

Part II. FOOD AND HEALTH SYSTEMS ECONOMICS MAJOR (FHSE)

A. Degree Core Courses (19 credit hours)

*AAEC 2434	Foundations of Agribusiness	3 ____
*AAEC 3004	Agricultural Production and Consumption Economics	3 ____
*AAEC 3024	Monetary and Global Issues in Applied Economics	3 ____
*AAEC 3014 ⁴	Analytical Methods in Applied Economics	3 ____
AAEC 3015	AAEC Internship	1 ____
ACIS 2115	Principles of Accounting	3 ____
*ENGL 3774 ⁵	Business Writing	3 ____

B. Major Core Courses (35 hours):

* APSC 1454	Introduction to Animal and Poultry Sciences	3 ____
*AAEC 3504	Marketing Agricultural Products	3 ____
*AAEC 4504	Agricultural Price and Market Analysis	3 ____
*AAEC 4814	Food and Health Economics	3 ____
*CSES 3444 (HORT 3444)	World Crops and Systems	3 ____
*ECON 4214	Economics of Health Care	3 ____
*FIN 3104 ⁶	Introduction to Finance	3 ____
FST 2014	Introduction to Food Science	2 ____
HNFE 1004	Foods, Nutrition and Exercise	3 ____
PHS 2004	Introduction to Public Health	3 ____

Choose one from:

APSC 3134 (DASC 3134)	Animal Agriculture and the Environment	3 ____
CSES 2244	Agriculture, Global Food Security, and Health	
*FST 2244	Topics in Food Science and Technology (3 credit course offering)	
HNFE 2544 (FST 2544)	Functional Foods for Health	
PHS 3014	Introduction to Environmental Health	

Choose one from:

AAEC 2424	Cooperatives and Their Impact on Human Condition	3 ____
AAEC 3314	Environmental Law	
AAEC 3604	Agricultural Law	
*AAEC 3454 (MGT 3454)	Small Business and Entrepreneurship	
ACIS 1504	Introduction to Business Analytics & Business Intelligence	

C. Capstone Course -- 3 hours total

Choose one from:

*AAEC 4404	Agricultural Management and Problem Solving	3 ____
*AAEC 4414	Applied Economic Problem Solving	
*PHS 4054	Concepts in One Health	

Part III. AREA OF SPECIALIZATION AND FREE ELECTIVES

A. Area of Specialization (18 hours) – 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).

Course	3	Course	3
	3		3
	3		3
	3		3

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.

¹ Or take ECON 2005-2006: Principles of Economics

² Or take MATH 1225-1226: Calculus of a Single Variable. Students considering graduate school in applied economics are encouraged to take MATH 1225-1226.

³ Or STAT 3005

⁴ Or BIT 2406, or STAT 3006, or STAT 3616

⁵ Or take ENGL 3764: Technical Writing; or ENGL 3754: Advanced Composition.

⁶ Or ACIS 2116: Principles of Accounting.