

**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 Entering under Undergraduate Catalog 2022-2023**

**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.

**A. Pathways General Education (45 hours):**

<b>Concept 1 – Discourse</b>			
	<b>Foundational</b>	ENGL 1105-1106	3 ____, 3 __
	<b>Advanced</b>	COMM 2004 or ALCE 3634	3 __
<b>Concept 2 – Critical Thinking in the Humanities</b>		Any Concept 2 Courses	3 ____, 3 __
<b>Concept 3 – Reasoning in the Social Sciences</b>		AAEC 1005, 1006 <sup>1</sup>	3 ____, 3 __
<b>Concept 4 – Reasoning in the Natural Sciences</b>		Any Concept 4 Lecture Courses	3 ____, 3 __
<b>Concept 5 – Quantitative &amp; Computational Thinking</b>			
	<b>Foundational</b>	MATH 1025	3 __
	<b>Foundational</b>	MATH 1026 <sup>2</sup> or CS 1014 or CS 1064 or FREC 1004 or STAT 1014	3 __
	<b>Advanced</b>	*STAT 3615 <sup>3</sup>	3 __
<b>Concept 6 – Critique &amp; Practice in Design and the Arts</b>			
	<b>Design</b>	Any Concept 6 Design Course	3 __
	<b>Arts</b>	Any Concept 6 Arts Course	3 __
<b>Concept 7 – Critical Analysis of Identity &amp; Equity in the US</b>		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 <sup>4</sup>	Analytical Methods in Applied Economics	3 __
AAEC 3015	AAEC Internship	1 __
ACIS 2115	Principles of Accounting	3 __
*ENGL 3774 <sup>5</sup>	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 __
*SPES 2244	World Crops: Food and Culture	3 __
*ECON 4214	Economics of Health Care	3 __
*AAEC 3424 <sup>6</sup>	Value-Based Management in Agribusiness	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). Students majoring in Agribusiness are not eligible to minor in any of the AAEC minors<sup>7</sup>.

Course		Course	
	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.

<sup>1</sup> Or take ECON 2005-2006: Principles of Economics

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

<sup>3</sup> Or STAT 3005: Statistical Methods or BIT 2405: Introduction to Business Statistics, Analytics, and Modeling

<sup>4</sup> Or BIT 2406: Introduction to Business Statistics, Analytics and Modeling, or STAT 3006: Statistical Methods, or STAT 3616: Biological Statistics

<sup>5</sup> Or take ENGL 3764: Technical Writing, or ENGL 3754: Advanced Composition, or ALCE 3624 Communicating Agriculture in Writing.

<sup>6</sup> Or FIN 3104: Introduction to Finance or ACIS 2116: Principles of Accounting.

<sup>7</sup> AAEC minors: Agribusiness Management and Entrepreneurship (ABAE), Environmental Economics (EECO), Development and International Trade (DAIT), and Agricultural and Applied Economics (AEMN).