

Virginia Polytechnic Institute & State University
College of Agriculture & Life Sciences
Bachelor of Science in Applied Economic Management
Environmental Economics, Management, and Policy Major (EEMP)
For Students Entering under Undergraduate Catalog 2023-2024

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)

Concept 1 – Discourse			
	Foundational	ENGL 1105-1106	3____, 3____
	Advanced	COMM 2004 or ALCE 3634	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____
	Advanced	*STAT 3615 ³	3____
Concept 6 – Critique & Practice in Design and the Arts			
	Design	Any Concept 6 Design Course	3____
	Arts	Any Concept 6 Arts Course	3____
Concept 7 – Critical Analysis of Identity & Equity in the US		Any Concept 7 Course	3____

Part II. ENVIRONMENTAL ECONOMICS, MANAGEMENT AND POLICY MAJOR (EEMP)

A. Degree Core Courses (19 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 3015	AAEC Internship	1____
*AAEC 3014 ⁴	Analytical Methods in Applied Economics	3____
ACIS 2115	Principles of Accounting	3____
*ENGL 3774 ⁵	Business Writing	3____

B. Major Core Courses (19 hours)

ALS 1234	CALS First Year Seminar	1____
*AAEC 3314	Environmental Law	3____
*AAEC 3324	Environment and Sustainable Development Economics	3____
*AAEC 4314	Environmental Economic Analysis and Management	3____
*AAEC 4324	Rural and Regional Development Policy	3____
ENSC 1015	Foundations of Environmental Science	3____
*AAEC 3424 ⁶	Value-Based Management in Agribusiness	3____

C. Analytical Methods (2-3 hours)

Take 1 of:

*AAEC 4504	Agricultural Price and Market Analysis	2 or 3____
GEOG 2084 ⁷	Principles of Geographic Information Systems	
*AAEC 3514	Agricultural Futures and Options	
*AAEC 4804	Elementary Econometrics	
*ALS 4614	Watershed Assessment, Management, and Policy	
*AAEC 4484	Applied Economic Forecasting	

D. Restricted Electives -- 9 hours total (6 hours must be at the 3000 level or higher)

AAEC _____	_____	3____
AAEC _____	_____	3____
AAEC _____	_____	3____

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 the AAEC Department are not eligible to minor in any of the AAEC minors⁸.

Course		Course	
_____	3 _____	_____	3 _____
_____	3 _____	_____	3 _____
_____	3 _____	_____	3 _____

B. Free Electives (8 hours -Number needed to complete 120 hours)

_____	3 _____	_____	3 _____
_____	2 _____		

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: Statistical Methods or BIT 2405: Introduction to Business Statistics, Analytics, and Modeling

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

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

⁶ Or FIN 3104: Introduction to Finance or ACIS 2116: Principles of Accounting.

⁷ May also take BSE 4344 Geographic Information Systems for Engineers.

⁸ AAEC minors: Agribusiness Management and Entrepreneurship (ABAE), Environmental Economics (EECO), Development and International Trade (DAIT), and Agricultural and Applied Economics (AEMN).