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.

<table>
<thead>
<tr>
<th>Pathways Concepts (45 hours):</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Concept 1 - Discourse - Foundational</td>
<td>ENGL 1105-1106</td>
</tr>
<tr>
<td>Discourse - Advanced</td>
<td>COMM 2004</td>
</tr>
<tr>
<td>Concept 2 - Critical Thinking in the Humanities</td>
<td>Any Concept 2 Courses</td>
</tr>
<tr>
<td>Concept 3 - Reasoning in the Social Sciences</td>
<td>AAEC 1005, 1006</td>
</tr>
<tr>
<td>Concept 4 - Reasoning in the Natural Sciences</td>
<td>Any Concept 4 Lecture Courses</td>
</tr>
<tr>
<td>Concept 5 - Quantitative &amp; Computational Thinking - Foundational</td>
<td>MATH 1025</td>
</tr>
<tr>
<td></td>
<td>Foundational MATH 1026 or CS 1014 or CS 1064</td>
</tr>
<tr>
<td></td>
<td>or FREC 1004 or STAT 1014</td>
</tr>
<tr>
<td></td>
<td>*STAT 3615</td>
</tr>
<tr>
<td>Concept 6 - Critique &amp; Practice in Design and the Arts - Design</td>
<td>Any Concept 6 Design Course</td>
</tr>
<tr>
<td>Critique &amp; Practice in Design and the Arts - Arts</td>
<td>Any Concept 6 Arts Course</td>
</tr>
<tr>
<td>Concept 7 - Critical Analysis of Identity &amp; Equity in the US</td>
<td>Any Concept 7 Course</td>
</tr>
</tbody>
</table>

Part II. FOOD AND HEALTH SYSTEMS ECONOMICS MAJOR (FHSE)  
A. Degree Core Courses (19 credit hours)  
*AAEC 2434  
*AAEC 3004  
*AAEC 3024  
*AAEC 3014  
AAEC 3015  
ACIS 2115  
*ENGL 3774  
** Foundations of Agribusiness  
Agricultural Production and Consumption Economics  
Monetary and Global Issues in Applied Economics  
Analytical Methods in Applied Economics  
AAEC Internship  
Principles of Accounting  
Business Writing  

B. Major Core Courses (35 hours):  
* APSC 1454  
* AAEC 3504  
* AAEC 4504  
* AAEC 4814  
*CSES 3444 (HORT 3444)  
*CSES 4214  
*FIN 3104  
FST 2014  
HNFE 1004  
PHS 2004  
** Introduction to Animal and Poultry Sciences  
Marketing Agricultural Products  
Agricultural Price and Market Analysis  
Food and Health Economics  
World Crops and Systems  
Economics of Health Care  
Introduction to Finance  
Introduction to Food Science  
Foods, Nutrition and Exercise  
Introduction to Public Health  

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

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

C. Capstone Course – 3 hours total  
Choose one from:  
*AAEC 4404  
*AAEC 4414  
*PHS 4054  
Agricultural Management and Problem Solving  
Applied Economic Problem Solving  
Concepts in One Health  

---

* The degree requires a total of 120 credit hours.
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).

<table>
<thead>
<tr>
<th>Course</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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 3015
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.