ADDENDA TO THIS CATALOG

The Undergraduate Catalog is published each academic year in June prior to the fall semester. The provisions of the Undergraduate Catalog are not to be regarded as a contract between the student and the University of Maryland. The university reserves the right to change its policies, rules, regulations, requirements for graduation, course offerings, tuition, fees, other charges, or any other contents of this catalog at any time.

When necessary, the university will track changes to the Undergraduate Catalog in this addenda section:

- For addenda related to policies, rules, regulations, tuition, fees and general information, see **General Addenda**
- For addenda related to curricula (i.e., descriptions, learning outcomes, and requirements for majors, minors, and certificates), see **Curricular Addenda**

Note: Updates to course offerings (e.g., course description changes), will be reflected in the following year's catalog and are not tracked in this addenda section.

GENERAL ADDENDA

This section contains addenda related to policies, rules, regulations, tuition, fees and general information. Each addendum contains an excerpt from the catalog as it was originally published as well as the change that was made. To view the full original text, see the catalog page referenced in the addendum.

Belonging & Community at UMD

Under Belonging & Community at UMD ***(***https://academiccatalog.umd.edu/about-university/campus-administration-deans/belonging-community-umd/***)***

- Effective July 10, 2026, an Interim Vice President for Belonging was appointed *(published July 14, 2026).*

Original

Vice President for Belonging: Georgina Dodge, Ph.D.

Change

Vice President for Belonging: Stephanie H. Chang, Ph.D. (Interim)

CURRICULAR ADDENDA

This section contains a list of addenda related to undergraduate academic and program changes. Each listing details changes that have been made to the program or indicates if the program is new.

- Environmental and Resource Economics Major (p. 1)
- HGLO - Honors Global Communities (p. 2)

Environmental and Resource Economics Major

- Effective Fall 2026, the Environmental and Resource Economics Major was established (*published August 5, 2026*).

Program Director: Maria Soppelsa

The Environmental and Resource Economics major prepares students to address complex environmental and natural resource challenges through a rigorous curriculum. Foundational courses in economics, analytics, and business statistics are paired with specialized coursework in environmental economics, energy economics, economic development, and natural resource policy.

Students enhance their knowledge by selecting complementary fields such as Environmental Data Science, Sustainable Development, Environmental and Resource Management and Policy, or Advanced Degree Preparation. The program attracts a small, diverse cohort, fostering personalized learning and collaboration.

Graduates are equipped with the analytical tools to succeed in impactful careers across the private, public, and non-profit sectors, nationally and internationally, addressing critical issues in environmental policy, sustainable development, and resource management. Many also secure placements in competitive graduate programs or pursue advanced degrees in applied economics, law, or related fields.

Students majoring in Environmental and Resource Economics may not pursue a double-major or double-degree in Agricultural and Resource Economics.

Program Learning Outcomes

1. Disciplinary Foundation: EREC majors will demonstrate knowledge of economic principles, terms and concepts and their application to analysis of economic problems in environmental and resource economics.
2. Critical and Analytical Thinking: EREC majors will demonstrate an ability to think critically about economic issues and to analyze and draw inferences from data.
3. Understanding Economic Policy: EREC majors will demonstrate knowledge of laws, policies and institutional arrangements in environmental and resource economics, their role in determining resource allocation, and how economics can inform policy design.
4. Diversity, Equity and Inclusion: EREC majors will demonstrate an understanding of the causes and consequences of differences in the distribution of environmental and natural resources across diverse socioeconomic, racial, and ethnic groups.

Requirements

Course	Title	Credits
Foundational Courses		
AREC250	Elements of Agricultural and Resource Economics	3
or AREC240	Introduction to Economics and the Environment	
or AREC241	Environment, Economics and Policy	
or ECON200	Principles of Microeconomics	
ECON201	Principles of Macroeconomics	3
AREC326	Intermediate Applied Microeconomics	3
MATH120	Elementary Calculus I	3-4
or MATH140	Calculus I	
Statistics Requirements		6
STAT100	Elementary Statistics and Probability	
or MATH107	Introduction to Math Modeling and Probability	
And		
BMGT230	Business Statistics	

or ECON230	Applied Economic Statistics	
Or		
STAT400	Applied Probability and Statistics I	
Upper-Level AREC Courses. Select five of the following courses		**15**
AREC380	Data Science for Environmental and Resource Economics	
AREC405	Economics of Production	
AREC422	Econometric Analysis in Agricultural and Environmental Economics	
AREC430	Introduction to Agricultural and Resource Law	
AREC431		
AREC445	Agricultural Development, Population Growth and the Environment	
AREC446	Sustainable Economic Development	
AREC453	Natural Resources and Public Policy	
AREC454	The Economics of Climate Change	
AREC455	Economics of Land Use	
AREC456	Energy and Environmental Economics	
AREC466	Transportation Engineering, Economics, and Policy	
AREC481	Environmental Economics	
Other upper-level AREC courses with permission of advisor		
Select three courses from one of the following fields (minimum 9 credits)		**9**
Advanced Degree Preparation		
Environmental Data Science		
Environmental and Resource Management and Policy		
Student Designed Field		
Total Credits		**42-43**

Fields:

ADVANCED DEGREE PREPARATION

Course	Title	Credits
Choose three of the following courses:		
ECON406	Advanced Microeconomics	3
ECON414	Game Theory	3
ECON415	Market Design	3
ECON422	Econometrics	3
ECON423	Advanced Topics in Econometrics	3
MATH141	Calculus II	4
MATH240	Introduction to Linear Algebra	4
MATH241	Calculus III	4
STAT401	Applied Probability and Statistics II	3
STAT420	Theory and Methods of Statistics	3
STAT430	Introduction to Statistical Computing with SAS	3

Any other upper-level ECON/MATH/STAT course chosen in consultation with advisor

ENVIRONMENTAL DATA SCIENCE

Course	Title	Credits
Choose three of the following courses:		
AREC280	Harvesting Big Data to Examine Agriculture and Climate Change	3
AREC380	Data Science for Environmental and Resource Economics	3
AREC422	Econometric Analysis in Agricultural and Environmental Economics	3
FIRE298	FIRE Semester 3	3
AOSC247	Scientific Programming: Python	3
or GEOG276	Principles of Python Programming and Geocomputing	
GEOG272	Introduction to Earth Observation Science	3
GEOG373	Geographic Information Systems	3
AOSC447	Machine Learning in Earth Science	3

ENVIRONMENTAL AND RESOURCE MANAGEMENT AND POLICY

Course	Title	Credits
Choose three of the following courses:		
AREC200	The Chesapeake Bay Ecosystem: Intersection of Science, Economics, and Policy	3
AGNR301	Sustainability	3
or PLCY301	Sustainability	
ANTH242	Fire, Farming and Climate Change: An Archaeology Take on the History of Human Impacts on our Planet	3
or ANTH266	Changing Climate, Changing Cultures	
AOSC375	Introduction to the Blue Ocean	3
ENST403	Invasive Species Ecology	3
ENST485	Water Management in Urban Environment	3
FGSM340	Energy and Environmental Policy	3
GEOG332	Economic Geography	3

STUDENT DESIGNED FIELD

Course	Title	Credits
This field requires a written proposal listing at least three courses totaling at least 9 credits.		9
The proposal must be submitted to the Undergraduate Committee of the AREC department. Committee approval must be obtained 30 or more credit hours before graduation. A student designed field may be used to study a foreign language as part of the AREC curriculum.		
Total Credits		**9**

OTHER REQUIREMENTS FOR THE MAJOR

All courses must be passed with a grade of "C-" or better to count towards prerequisite courses, major core courses, or field requirements. "C- or better" means any grade for which the University awards 1.7 or more quality points in calculating GPA. Beginning with students matriculating Fall 2012, to be awarded a baccalaureate degree, students must have a minimum (2.00) cumulative grade point average across all courses used to satisfy major degree requirements.

HGLO - Honors Global Communities

Under Approved Courses **(**https://academiccatalog.umd.edu/undergraduate/approved-courses/**) and** HGLO - Honors Global

Communities *(*https://academiccatalog.umd.edu/undergraduate/approved-courses/hglo/*)*

- Effective Fall 2026, the HGLO course prefix was renamed to Honors Global Challenges and Solutions (*published July 14, 2026*).

Original

Course Prefix: HGLO - Honors Global Communities

Change

Course Prefix: HGLO - Honors Global Challenges and Solutions