

ENVIRONMENTAL TECHNOLOGY (AAS)

Award: Associate of Applied Sciences Degree

No. of credits required: 60

For more information: Contact Tami Imbierowicz, 443-412-2122, timbierno@harford.edu; Andrew Adams, 443-412-2283, anadams@harford.edu; Admissions, 443-412-2109; or stem@harford.edu.

Program Description

The A.A.S. degree in Environmental Technology prepares students to immediately integrate into a wide array of jobs in the environmental arena, including air and water quality monitoring, radiologic, sound and biological sampling, and hazardous material handling. Both laboratory and field skills are emphasized, as well as chain-of-custody and other paperwork requirements. The breadth of the program allows graduates to compete in the job market for a variety of technical positions. A broad base of knowledge in the sciences, as well as communications skills are developed by the time the degree is earned.

Program Goals

At the completion of the AAS in Environmental Technology degree, the student will be able to:

1. Apply technical skills important in the environmental field to support important scientific and legal principles.
2. Explain and apply sustainable practices to businesses in which they are employed and to their own lives.
3. Provide technical support for established environmental monitoring programs.
4. Provide technical assistance and support in remedial actions at hazardous waste sites.
5. Collect technical data for environmental analysis.
6. Comply with the pertinent environmental regulations by understanding the scientific, technical and legal issues involved and assisting in the development of environmental monitoring programs.
7. Interpret environmental analysis to provide input to technical and process decisions.

Employment Information

Employment of environmental science technicians should grow about as fast as the average; employers indicate that positions as environmental technicians will be needed to help regulate waste products; to collect air, water, and soil samples for measuring levels of pollutants; to monitor compliance with environmental regulations; and to clean up contaminated sites. Possible positions of employment include field service technician, laboratory technician, remediation technician and hazardous materials technician.

Cooperative Education credits are recommended in this program. Consult with Program Coordinator.

Diversity Requirement

To satisfy the diversity requirement: Associate degree students must complete one 3-credit diversity course (D). It is recommended that students select one of the 3-credit (GB), (GH), (GI) course electives from

those that also appear on the approved list of diversity course graduation requirements.

Degree Requirements

Recommended Course Sequence

Course	Title	Credits
First Semester		
CHEM 111	General Chemistry I (GL)	4
CMST 101	Speech Fundamentals (GI)	3
ENV 111	Introduction to Environmental Science (GS)	3
ENG 101	English Composition (GE)	3
	Behavioral/Social Science Elective (GB) (https://catalog.harford.edu/general-education/#behavioral-social-science)	3
		Credits
		16
Second Semester		
CHEM 114 or CHEM 112	General Chemistry IIB (GL) ¹ or General Chemistry II A (GL)	4
ENV 220	Principles of Environmental Analysis I	4
ES 105	Earth Science (GS)	3
ES 106	Earth Science Laboratory (GL)	1
MATH 109	Precalculus Mathematics (GM)	4
		Credits
		16
Third Semester		
ENV 202	Environmental Law	3
ENV 122	Introduction to Soil Sciences	3
MATH 216	Introduction to Statistics (GM)	4
Select one of the following:		4
ENV 274	Cooperative Education IV: Environmental Science ²	
CHEM 207	Organic Chemistry I	
CHEM 204	Analytical Chemistry	
		Credits
		14
Fourth Semester		
ENG 209	Technical Writing	3
CIS Elective		3
ENV 225	Environmental Problems - Assessment and Evaluation	4
	Arts/Humanities Elective (GH) (https://catalog.harford.edu/general-education/#arts-humanities)	3
	Physical Education Elective	1
		Credits
		14
		Total Credits
		60

¹ Students planning to take CHEM 204 Analytical Chemistry or CHEM 207 Organic Chemistry I should take CHEM 112 General Chemistry II A (GL) instead of CHEM 114 General Chemistry IIB (GL).

² Students should contact Advising, Career and Transfer services for permission to register for Cooperative Education courses, 443-412-2301.

General Education Degree Requirements

Note: The following codes identify courses which satisfy the General Education Degree Requirements:

Behavioral/Social Science (GB)

English Composition (GE)

Arts/Humanities (GH)

Interdisciplinary and Emerging Issues (GI)

Biological/Physical Laboratory Science (GL)

Mathematics (GM)

Biological/Physical Science (GS)