



## Environmental Technology A.A.S.

Curriculum Code: 0793

Effective: Fall 2019 – Summer 2024

### Description

Environmental Technicians may work for environmental/engineering consulting firms, local or state regulatory agencies, manufacturers, recycling and waste management companies and local utility and public service (works) departments. They perform tasks such as environmental sample collection and monitoring, instrument calibration, report writing and data management. Environmental Technicians may help clients comply with governmental environmental standards, assist in field investigations, or work as a team member on a waste or contamination site. They use computer skills to work with environmental data as well as the concepts of chemistry, biology, meteorology, geology and hydrology to help professionals determine the movement and effects of environmental contaminants. Not all courses in this program transfer to all colleges. Students planning to transfer should see an academic advisor before enrolling in any course.

### Contact Information

Contact the Science Department, Arts and Sciences Building, Room 255, telephone number 517-483-1092, or the Academic Advising Department, Gannon Building - StarZone, telephone number 517-483-1904.

### General Education Core Courses, Recommended Choices

(For the full list of options, see [General Education Core](#))

- Communication – *Select one*
- Global Perspective and Diversity – *Select one*
- Math – *Select one*
- Science  
Program of Study Required Courses will meet this requirement.
- Writing – *Select one*  
ENGL 121, Composition I, 4 credits / 4 billing hours  
ENGL 122, Composition II, 4 credits / 4 billing hours  
ENGL 131, Honors Composition I, 4 credits / 4 billing hours  
ENGL 132, Honors Composition II, 4 credits / 4 billing hours

### Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
BIOL 127	Cell Biology	4 / 6
CHEM 151	General Chemistry Lecture I	4 / 4
CHEM 152	General Chemistry Lecture II	3 / 3
CHEM 161	General Chemistry Lab I	1 / 3
CHEM 162	General Chemistry Lab II	1 / 3

Course Code	Course Title	Credit / Billing Hours
ENVR 121	Environmental Rules and Regs	3 / 3
ENVR 122	Enviro Sampl & Instrumentation	4 / 6
ENVR 131	Industrial Process Safety	3 / 3
GEOL 230	Environmental Geology	4 / 6
ISCI 245	S.T.E.M. Workplace Practices	4 / 6
STAT 215	Intro to Probability and Stats	4 / 4

**Program of Study Required Courses, Limited Choice – Select three or four courses.**

*For MSU transfer students choosing Chemistry, select both CHEM 182 and 192, plus two additional courses.*

Course Code	Course Title	Credit / Billing Hours
CHEM 182	Introductory Organic Chemistry	3 / 3
CHEM 192	Intro Organic Chem Lab	1 / 3
CHEM 262	Quantitative Analysis	3 / 6
GEOL 221	Physical Geology	4 / 6
GSCI 110	Beginning ArcGIS	3 / 5
GSCI 120	Advanced ArcGIS	3 / 5
GSCI 210	Global Positioning Systems	3 / 4
PHYS 221	Introductory Physics I	4 / 6
POLS 120	American Political System	4 / 4
SCIN 287	Science Technology Internship	2-4 / 2-4

**Program of Study Required Courses, Limited Choice - Biology – Select one**

Course Code	Course Title	Credit / Billing Hours
BIOL 128	Organismal Biology	4 / 6
BIOL 203	Microbiology	3 / 3
BIOL 210	Natural Resource Conservation	4 / 6

**Total Credit Hours**

62-66 credits / 76-91 billing hours

**Recommended Course Sequence**

Semester I	Semester II
Communication Core	Math Core
Writing Core	CHEM 152
BIOL 127	CHEM 162
CHEM 151	ISCI 245
CHEM 161	STAT 215

Semester III	Semester IV
Global Perspectives and Diversity Core ENVR 122 GEOL 230 Limited Choice	ENVR 121 ENVR 131 Limited Choice Limited Choice Limited Choice Biology