

LANSING COMMUNITY COLLEGE

Liberal Arts

**Curriculum Code: 0793
(Effective Fall 2018 –
Summer 2023)**

Environmental Technology A.A.S. Pathway

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.

For More 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.

Semester I	Course Title	Prerequisites	Credit/Billing Hours
Writing Core Area - <i>Select 1</i>			
ENGL 121	Composition I	Reading Level 5 and Writing Level 6 or (Reading Level 4 and Writing Level 4 and ENGL 099 concurrently)	4 / 4
ENGL 122	Composition II	Minimum 2.0 in ENGL 121 or ENGL 131 or (Reading Level 5 and Writing Level 8)	4 / 4
ENGL 131	Honors Composition I	Reading Level 5 and Writing Level 7	4 / 4
ENGL 132	Honors Composition II	Minimum 3.5 in ENGL 121 or ENGL 131 or Reading Level 5 and Writing Level 8	4 / 4
Communication Core Area - <i>Select 1</i>			
COMM 120	Dynamics of Communication	Reading Level 5 and Writing Level 6	3 / 3
COMM 130	Fund of Public Speaking	Reading Level 5 and Writing Level 6	3 / 3

Program of Study Requirements			
<i>BIOL 127 also satisfies the Science Core requirement.</i>			
BIOL 127	Cell Biology	(Minimum 2.0 in CHEM 120) or (Minimum 2.0 in CHEM 151 or concurrently) and Reading Level 5 and Writing Level 6 and Math Level 4	4 / 6
CHEM 151	General Chemistry Lecture I	Reading Level 5 and Writing Level 6 and (Math Level 6 or MATH 109 concurrently or MATH 112 concurrently)	4 / 4
CHEM 161	General Chemistry Lab I	Minimum 2.0 in CHEM 151 or concurrently and Reading Level 5 and Writing Level 6 and (Math Level 6 or MATH 109 or MATH 112 concurrently)	1 / 3
Credits			16 / 20
Semester II	Course Title	Prerequisites	Credit/Billing Hours
Math Core Area - <i>Select 1</i>			
MATH 120	College Algebra	(Minimum 2.0 in MATH 109 or MATH 112 within 2 years or Math Level 6 within 2 years) and Reading Level 5 and Writing Level 4	4 / 4
MATH 121	Precalculus I	(Minimum 2.5 in MATH 109 or MATH 112 within 2 years or Math Level 6 within 2 years) and Reading Level 5 and Writing Level 4	4 / 4
MATH 151	Calculus I	(Minimum 2.0 in MATH 122 or MATH 126 within 2 years or Math Level 9 within 2 years) and Reading Level 5 and Writing Level 6	4 / 4

Program of Study Requirements			
CHEM 152	General Chemistry Lecture II	Minimum 2.0 in CHEM 151 and (Math Level 7 or MATH 121 or MATH 126 or concurrently) and Reading Level 5 and Writing Level 6	3 / 3
CHEM 162	General Chemistry Lab II	Minimum 2.0 in (CHEM 152 or concurrently) and CHEM 161 and Reading Level 5 and Writing Level 6 and Math Level 7 (or Math 121 or Math 126 or concurrently)	1 / 3
ISCI 245	S.T.E.M. Workplace Practices	Reading Level 5 and Writing Level 6 and (Math Level 5, or MATH109 concurrently, or MATH 112 concurrently)	4 / 6
STAT 215	Intro to Probability and Stats	(Minimum 2.0 in MATH 120 or above or Math Level 7) and Reading Level 5 and Writing Level 4	4 / 4
Credits			16 / 20
Semester III	Course Title	Prerequisites	Credit/Billing Hours
Global Perspectives and Diversity Core Area - <i>Select 1</i>			
ECON 120	Power, Authority and Exchange	Reading Level 5	4 / 4
GEOG 200	World Regional Geography	Reading Level 5 and Writing Level 6 and (Math Level 4 or minimum 2.0 in MATH 105 or MATH 106)	4 / 4
HUMS 213	World Civilizations to 1600	Reading Level 5 and Writing Level 6	4 / 4
SOCL 120	Introduction to Sociology	Reading Level 5 or (Reading Level 4 and ENGL 099 concurrently)	4 / 4
Program of Study Requirements			
ENVR 122	Enviro Sampl & Instrumentation	Reading Level 5 and Writing Level 6 and Math Level 5	4 / 6
GEOL 230	Environmental Geology	Reading Level 5 and Writing Level 6 and Math Level 4	4 / 6

Biology Electives - <i>Select 1</i>			
BIOL 128	Organismal Biology	Reading Level 5 and Writing Level 6 and (Math Level 4 or minimum 2.0 in MATH 105 or MATH 106)	4 / 6
BIOL 203	Microbiology	Reading Level 5 and Writing Level 6 and (Math Level 4 or minimum 2.0 in MATH 105 or MATH 106)	3 / 3
BIOL 210	Natural Resource Conservation	Reading Level 5 and Writing Level 6 and (Math Level 4 or minimum 2.0 in MATH 105 or MATH 106)	4 / 6
Credits			15-16 / 19-22
Semester IV	Course Title	Prerequisites	Credit/Billing Hours
Program of Study Requirements			
ENVR 121	Environmental Rules and Regs	Reading Level 5 and Writing Level 6 and Math Level 5	3 / 3
ENVR 131	Industrial Process Safety	Reading Level 5 and Writing Level 6 and Math Level 5	3 / 3

Environmentally Related Electives - <i>Select 3-4</i>			
<i>For MSU transfer students choosing Chemistry, select both CHEM 182 and 192, plus two additional courses.</i>			
CHEM 182	Introductory Organic Chemistry	Reading Level 5 and Writing Level 6	3 / 3
CHEM 192	Intro Organic Chem Lab	Minimum 2.0 in CHEM 182 or concurrently and Reading Level 5 and Writing Level 6	1 / 3
CHEM 262	Quantitative Analysis	Minimum 2.0 in (CHEM 152 and CHEM 162) and Reading Level 5 and Writing Level 6 and Math Level 7	3 / 6
GEOL 221	Physical Geology	Reading Level 5 and Writing Level 6 and (Math Level 4 or minimum 2.0 in MATH 105 or MATH 106)	4 / 6
GRET 110	Beginning ArcGIS Desktop	Reading Level 3 and Math Level 4	3 / 5
GRET 120	Advanced ArcGIS	Minimum 2.0 in GRET 110 and Reading Level 3 and Math Level 4	3 / 5
GRET 210	Global Positioning Systems	None	3 / 4
PHYS 221	Introductory Physics I	Reading Level 5 and Writing Level 6 and (Math Level 9 or minimum 2.0 in MATH 122 or MATH 141)	4 / 6
POLS 120	American Political System	Reading Level 5	4 / 4
SCIN 287	Science Technology Internship	Department Approval	2-4 / 2-4
Credits			15-18 / 17-29
Total Credits			62-66 / 76-91