

ENVIRONMENTAL STUDIES

Credentials

Environmental Science Technician certificate	31 cr.
Environmental Studies AAS degree	60 cr.

Major Description

With more focus on “green” energy, technology and sustainability, Schoolcraft’s environmental studies program prepares students for entry into this fast-growing field. Through the study of the environment, related sciences, communication and geographic information systems, students can pursue either an environmental science technician certificate or an associate in applied science degree. Students can also complete a spring co-op experience in the final semester of the certificate and degree program to apply the knowledge and skills learned at Schoolcraft in a real-world situation.

Environmental Science Technician Certificate

Schoolcraft program code # 1YC.00276

Environmental science technicians provide technical assistance to engineers and scientists by performing tasks such as sample collection, laboratory tests, monitoring and data management. The environmental science technician applies scientific and technical skills and knowledge to specific tasks. Technicians have strong written and oral communication skills, computer skills and practical hands on training in the field and laboratory. Technicians can problem solve quickly and apply their classroom knowledge to real world situations. The environmental science technician program provides students with the necessary background to be successful technicians. Upon completion of this certificate program, it is highly recommended that students complete the 40 hour Hazardous Waste Operations and Emergency Response (Hazwoper) training from any certified location.

Students who satisfactorily complete the program requirements qualify for a certificate of program completion.

SAMPLE SCHEDULE OF COURSES
First Year—Fall Semester

GEOG 135	Earth Systems	4
MATH 113	Intermediate Algebra for College Students	4
GEOG 225	Introduction to Geographic Information Systems—GIS	4
	Total Credits	12

First Year—Winter Semester

ENVR 107	Soil Mechanics	4
ENVR 206	Environmental Law	3
GEOG 212	Environmental Science	3
GEOG 217	Water Resources	3
ENVR 235	Geographic Methods Applied to Environmental Problems	3
	Total Credits	16

First Year—Spring/Summer Session

ENVR 232	Environmental Field Experience	3
	Total Credits	3

PROGRAM TOTAL 31 CREDITS

Not all courses are offered each semester. Students should work with an academic advisor or counselor to develop a schedule that will work for them.

Students planning to transfer should check the transfer institution’s requirements/guides or discuss their options with an academic advisor or counselor. Number of credits may vary depending on the course selection.

Environmental Science Technician Certificate

Schoolcraft program code # 1YC.00276

The environmental studies program is an interdisciplinary program that concentrates on the identification of environmental problems and the analysis of the complex interactions of human populations with the earth. The program includes discussions of technology and how it impacts the environment. Program courses incorporate the concept of sustainable development, a form of economic development that encourages economic growth while at the same time improving quality of life and preserving the environment. The capstone course is a Field Experience course where students apply classroom knowledge to a field environmental issue. Students in the environmental studies program can transfer to a four-year environmental studies or environmental science program, or complete an environmental technician certificate.

Students who satisfactorily complete all college and program requirements qualify for an associate in applied science degree.

Students seeking transfer to a baccalaureate program should request transfer guides provided by the department.

SAMPLE SCHEDULE OF COURSES
First Year—Fall Semester

ENG 101	English Composition 1	3
COMA 103	Fundamentals of Speech	3
MATH 113	Intermediate Algebra for College Students	4
GEOG 135	Earth Systems	4
	Total Credits	14

First Year—Winter Semester

ENG 102	English Composition 2	3
GEOG 212	Environmental Science	3
ENVR 107	Soil Mechanics	4
ART 115	Art History 1	4
	Total Credits	14

Environmental Science Technician Certificate (continued)

Second Year—Fall Semester

POLS 105	Survey of American Government	3
CIS 225	Database Management Systems	3
ENVR 230	Energy Resources	3
GEOG 225	Introduction to Geographic Information Systems—GIS	4
	Total Credits	13

Second Year—Winter Semester

CHEM 111	General Chemistry 1	4
GEOG 217	Water Resources	3
ENVR 206	Environmental Law	3
GEOG 203	Weather & Climate	3
ENVR 235	Geographic Methods Applied to Environmental Problems	3
	Total Credits	16

Second Year—Spring Session

ENVR 232	Field Experience	3
	Total Credits	3

PROGRAM TOTAL 60 CREDITS

Not all courses are offered each semester. Students should work with an academic advisor or counselor to develop a schedule that will work for them.

Students planning to transfer should check the transfer institution's requirements/guides or discuss their options with an academic advisor or counselor. Number of credits may vary depending on the course selection.