



Environmental Science (405)

Associate of Science

ABOUT OUR PROGRAM

This program is intended to provide the first two years of a four-year baccalaureate program. Environmental Science majors apply biological, chemical, and physical principles to the study of the physical environment and the solution of environmental problems, including subjects such as abating or controlling environmental pollution and degradation; the interaction between human society and the natural environment; and natural resources management.

NATURE OF WORK AND EMPLOYMENT

Environmental scientists identify and analyze environmental problems both natural and human-made, evaluate the relative risks associated with these problems, and examine alternative solutions for resolving or preventing them. The most common jobs people have one year after graduating with a baccalaureate degree in this major are Researcher, Policy Adviser, Compliance Officer, and Consultant.

SPECIAL CONSIDERATIONS

Those interested in Environmental Science should have an aptitude for interdisciplinary Science and Mathematics as well as an awareness of Sociological and Political issues. **The listed coursework is a recommendation only. Students should check with a student advisor for HCC graduation requirements and specific university requirements in this major.** Students must meet with an advisor to ensure that the special requirements of the department and institution to which they plan to transfer are met. Colleges and universities have specific requirements for transfer students. Students are encouraged to take MATH 268 Analytic Geometry and Calculus II as it is required by some programs.

PROGRAM CONTACTS

Call Highland at 815-235-6121 for the following program contacts:

- Dr. Brendan Dutmer, Associate Dean, Natural Science and Mathematics
- Steve Simpson, Geology/Geography Faculty
- Karla Giuffre, Biology Faculty
- Tony Grahame, Biology Faculty
- Juliet Moderow, Biology Faculty
- Alan Nowicki, Biology Faculty
- Heather Moore, Student Advisor

RECOMMENDED COURSES

The following are recommended courses for this major only. Students must still meet all requirements for the Associate of Science degree (see page 58) in order to graduate from Highland Community College. For more information, please see your student advisor.

Chemistry

* CHEM	123	General College Chemistry I	5
* CHEM	124	General College Chemistry II	5

Environmental Sciences (Life and Physical)

BIOL	116	Introduction to Ecology	4
GEOL	126	Geology	4
* NSCI	232	Fundamentals of Meteorology	4

Mathematics

* MATH	177	Statistics	3
* MATH	168	Analytic Geometry and Calculus I	5
* MATH	268	Analytic Geometry and Calculus II	5

Physics

* PHYS	141	Introductory Physics I	4
* PHYS	142	Introductory Physics II	4
		-or-	
* PHYS	143	General Physics I	5
* PHYS	144	General Physics II	5

* Course has a prerequisite. See course descriptions