Environmental Science

Associate in Science (AS) Degree

Environmental Science Concentration

For students considering a major in ENVIRONMENTAL SCIENCE upon transferring to a four-year institution, the Associate of Science degree with an ENVIRONMENTAL SCIENCE concentration from ACC offers a strong foundation, providing essential courses that serve as building blocks for advanced study.

A concentration in ENVIRONMENTAL SCIENCE can lead to diverse career opportunities, including conservation, sustainability, policy, and research, and roles as environmental consultants, sustainability managers, environmental educators, ecologists, wildlife conservationists, air and water quality specialists, and environmental policy analysts.

Program Objectives

Upon graduating from ACC with an Associate of Science degree with a concentration in ENVIRONMENTAL SCIENCE, students will:

1. **Demonstrate** a solid understanding of environmental principles, including ecology, climate science, and sustainability practices.
2. **Apply** analytical and research skills to assess environmental issues, collect data, and propose solutions to ecological challenges.
3. **Apply** scientific knowledge and communication skills to advocate for environmental conservation and prepare for further academic study or careers in environmental science and policy.

It is strongly recommended that students consult with an ACC Academic Advisor in ENVIRONMENTAL SCIENCE to ensure they meet specific program requirements, objectives, and transfer goals.

Program Requirements (PR)

BIO 161	**General College Biology I (4/5)**
BIO162	**General College Biology II (4/5)**
BIO 207	**Wildlife & Fisheries Ecology & Mgt (3/3)**
CEM 121	**General & Inorganic Chemistry (4/7)**
CEM 122	**Inorganic Chem & Qualitative Analysis (4/7)**
ENV 101	**Environmental Science (4/5)**
MTH 223	**Statistical Methods (4/4)**
MTH 123	**College Algebra & Analytical Trig (4/4)**

General Education
Degree Distribution Requirements

Group 1 (G1) – English composition

Six (6) semester credits are required, including ENG 111 or 121 and 112, 122 or 123

Group 2 (G2) – Sciences/Mathematics

Twenty (20) semester credits are required, including at least one laboratory science course. Courses will be taken in more than one academic discipline (course abbreviation/prefix). Note: Two (2) courses in Natural Sciences, including one with laboratory experience (from two disciplines), in addition to MTH 118 or MTH 121 or higher, are required to achieve the Michigan Transfer Agreement (MTA).

Group 3 (G3) – Social Sciences & Humanities/Fine Arts

Ten (10) semester credits are required in combination from both of these groups, with a minimum of three (3) credits from each group. Political Science or U.S. History courses used to satisfy the American Government requirement can be included. Courses will be taken in more than one academic discipline (course abbreviation/prefix). Note: Two (2) courses in Social Sciences (from two disciplines) and two (2) courses in Humanities and Fine Arts (from two disciplines and excluding studio and performance classes) are required for the Michigan Transfer Agreement (MTA).

Elective Credits (EC)

The remainder of credits for an AS degree with this concentration should be oriented toward additional courses in ENVIRONMENTAL SCIENCE with prefixes **CEM, MTH, and PHY** when available in consultation with an ACC Academic Advisor in ENVIRONMENTAL SCIENCE.

Recommended Courses - Sequence
Group 1-4 Requirements + Elective Credits

Meets ACC degree distribution and MTA requirements
60 Credits - 73 Contact Hours

Year 1 Fall	15 Credits	
G1	ENG 111	English Composition I (3/3)
G2 PR	**BIO 161**	**General College Biology I (4/5)**
G2 PR	**ENV 101**	**Environmental Science (4/5)**
G2 PR	**MTH 123**	**College Algebra & Analytic Trig (4/4)**

Year 1 Spring	17 Credits	
G1	ENG 112	English Composition II (3/3)
G2 PR	**BIO 162**	**General College Biology II (4/5)**
G2 PR	**BIO 207**	**Wildlife & Fisheries Ecol & Mgt (3/3)**
G2 PR	**MTH 223**	**Statistical Methods (4/4)**
G3	GEO 151	Elective – Introduction to GIS (1.5/2)
G3	GEO 152	Elective – Advanced GIS (1.5/2)

Year 2 Fall	13 Credits	
G2 PR	**CEM 121**	**General & Inorganic Chemistry (4/7)**
G3	PLS 221	American Government & Politics (3/3)
G3	ECN 231	Economics (Micro) (3/3)
G3	PHL 228	Introduction to Ethics (3/3)

Year 2 Spring	15 Credits	
G2 PR	**CEM 122**	**Inorganic Chem & Qual Analysis (4/7)**
G2	BIO 227	Microbiology (4/6) *or* BIO 211 General Zoology (4/5)
G3/G2	GEO 127	Physical Geography (4/5) *or* PHY 124 Intro to Physical Geology (4/5)
G3	SPE 121	Speech Communication (3/3)