

# ENVIRONMENTAL SCIENCE, ASSOCIATE IN SCIENCE

Environmental Science is an interdisciplinary study that examines the role of humans on the Earth and provides students with an understanding of the application of biological, chemical, and physical sciences to environmental systems. The coursework examines the interrelated nature of environmental and social systems.

The Associate of Science in Environmental Science prepares students for transfer to a 4-year university or technical program for further study to prepare for a wide variety of careers.

Upon successful completion of the program, students will be able to:

- Critically evaluate the economic, social, and ecological perspectives of the major environmental issues.
- Identify and describe the essential physical, chemical, and biological components of the earth's natural systems, and explain how they interact and function.
- Analyze and prioritize solutions to environmental issues based on sustainability, social justice, and ecological health.
- Apply scientific literacy, technological tools, and quantitative reasoning to communicate environmental concepts to diverse audiences.

Code	Title	Units
<b>Required Core</b>		
BIOL 21	Concepts in Biology I: Cells, Genetics and Organisms	5
BIOL 22	Concepts in Biology II: Diversity, Ecology, and Evolution	5
BIOL 31	Introduction to Environmental Science	3
BIOL 32	Environmental Science Laboratory	1
CHEM 1A	General Chemistry I	5
Select one course from the following:		3-5
CHEM 1B	General Chemistry II	
ECON 4	Principles of Economics: Micro	
GEOL 2 & GEOL 2L	Physical Geology and Physical Geology Laboratory	
MATH 16	Elementary Statistics	
MATH 18	Calculus and Analytic Geometry for Biology/Social Science/Bu	
MATH 20A	Calculus with Analytic Geometry I	
<b>Total Major Units</b>		<b>22-24</b>
<b>Additional Requirements</b>		<b>36-38</b>
Complete Competency Requirements, general education pattern (MPC General Education, CSU General Education, or IGETC), and electives, if needed, for a total of 60 degree-applicable units.		
<b>Total Units</b>		<b>60</b>

Please refer to the graduation requirements section of the Catalog for information about degree and certificate requirements including Reading and Writing, Mathematics, Information Competency, and General Education requirements.

The model sequence of coursework below is one pathway for students to complete the program. The information below is not an official educational plan. An MPC Counselor can assist you with creating a personalized education plan based on your academic, career, and personal goals. Visit MPC's Counseling website for more information about Counseling and up-to-date program requirements.

<b>Year 1</b>		<b>Units</b>
<b>Fall</b>		
ENGL 1A or ENGL 1AE	College Composition or College Composition: Enhanced	3
LIBR 50	Introduction to Library and Research Skills	1
MATH 16 or MATH 18 or MATH 20A	Elementary Statistics or Calculus and Analytic Geometry for Biology/Social Science/Bu or Calculus with Analytic Geometry I	4
BIOL 31 & BIOL 32	Introduction to Environmental Science and Environmental Science Laboratory	4
MPC GE Area D (ECON 4 Recommended)		3
<b>Units</b>		<b>15</b>
<b>Spring</b>		
MPC GE Area F (US-2 & 3 Course Recommended)		3
Electives (CHEM 2 Recommended)		4
Electives (ENGL 2 Recommended)		3
Electives (GEOL 2 and GEOL 2L, MATH 16, MATH 18, or MATH 20A Recommended)		4
<b>Units</b>		<b>14</b>
<b>Year 2</b>		
<b>Fall</b>		
BIOL 22	Concepts in Biology II: Diversity, Ecology, and Evolution	5
CHEM 1A	General Chemistry I	5
MPC GE Area C		3
Electives (SPCH 1 or SPCH 2 Recommended)		3
<b>Units</b>		<b>16</b>
<b>Spring</b>		
BIOL 21	Concepts in Biology I: Cells, Genetics and Organisms	5
Electives (CHEM 1B Recommended)		5
Electives (US-1 Course Recommended)		3
Electives		2
<b>Units</b>		<b>15</b>
<b>Total Units</b>		<b>60</b>