

# ENVIRONMENTAL SCIENCE (AS)

## Associate of Science

### Transfer Program

#### Interest Areas:


























Science, Tech., Engr. and Math

Environmental science is the study of human impact on the environment. Our quality of life will depend on our understanding of complex environmental issues. Students enrolled in this program will receive a diverse background in the sciences, including biology, chemistry, and geology.

Completion of the following courses results in an Associate of Science Degree with an area of emphasis in Environmental Science. This program normally fulfills the first two years of baccalaureate study in Environmental Science. Course selection should be tailored to match requirements defined by intended transfer institution.

Program Website ([https://www.nic.edu/programs/viewprogram.aspx?program\\_id=29](https://www.nic.edu/programs/viewprogram.aspx?program_id=29))

## Program Requirements

Code	Title	Credits
<b>General Education Requirements</b>		
GEM 1	Written Communication	6
GEM 2	Oral Communication	3
GEM 3	Mathematical Ways of Knowing <sup>1</sup>	0
GEM 4	Scientific Ways of Knowing <sup>1</sup>	0
GEM 5	Humanistic and Artistic Ways of Knowing	6
GEM 6	Social and Behavioral Ways of Knowing	6
GEM 7	Institutionally Designated	4-6
<b>Program Requirements</b>		
BIOL-115	Introduction to Life Sciences  	4
BIOL-231	General Ecology	4
BTNY-203	General Botany   	4
CHEM-111	Principles of General College Chemistry I   	5
CHEM-112	Principles of General College Chemistry II   	5
ENSI-119	Introduction to Environmental Science   	4
GEOL-101	Physical Geology  	4
ZOOL-202	General Zoology   	4
MATH-160	Survey of Calculus   	4
	or MATH-170 Analytic Geometry and Calculus I   	
Total Credits		63-65

<sup>1</sup> This General Education Requirement is met by the Program Requirements.

### Course Key



GEM



WCHE



AAS  
Institutionally  
Designated



Gateway



Milestone

## Program Outcomes

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

- Apply foundational knowledge of environmental science including biodiversity, human population growth, toxicology, climate impacts and sustainable development.
- Describe and differentiate the major systems of the Earth (atmosphere, biosphere, hydrosphere, lithosphere).
- Apply the concepts of deep time and biological evolution to biodiversity loss and extinction.
- Employ scientific methods and reasoning to critically evaluate assertions and identify environmental impacts, communicate the scientific basis of various environmental issues and identify potential solutions to those problems.
- Recognize that humans significantly alter the environment and illustrate how humans depend on Earth for limited natural resources and ecosystem services which may affect the human experience.

In addition to the program outcomes, students will meet the North Idaho College General Education (GEM) Requirements.