ENVIRONMENTAL SCIENCE (AS)

Associate of Science

Transfer Program
Interest Areas:
Science, Tech., Engr. and Math

Environmental science is an interdisciplinary field that utilizes physical, chemical, and biological sciences to study both natural and anthropogenic impacts on the environment. Communication, data management, and problem solving skills are stressed throughout the program and applied to a variety of complex environmental issues including biodiversity loss, water resources, and global climate change. Students enrolled in this program will receive a diverse background in the sciences, including biology, chemistry, and geology as wells as exposure to international environmental issues. This program provides a solid scientific foundation as well as the flexibility students need to specialize in one of the branches of environmental science. Specialization in a select area is encouraged to progress toward a suitable transfer program or career goal.

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.

Contact Information:
Natural Sciences Division
Meyer Health and Sciences Building, Room 250
Phone: (208) 769-3495
Program Website (https://www.nic.edu/programs/environmental-science/)

Program Requirements

Code	Title	Credits
General Education Requirements		
GEM 1 - Written Communication		6
GEM 2 - Oral Communication		3
GEM 3 - Mathematical Ways of Knowing [1]		0
GEM 4 - Scientific Ways of Knowing [1]		0
GEM 5 - Humanistic and Artistic Ways of Knowing [2]		3
GEM 6 - Social and Behavioral Ways of Knowing [2]		3
GEM 7W - Wellness		1-3
Select one of the following:		3
GEM 7F - First Year Experience		
GEM 7I - Institutionally Designated		
Program Requirements		
ANTH-102	Cultural Anthropology	3
BIOL-115	Introduction to Life Sciences	4
CHEM-111	General Chemistry I	5
CHEM-112	Principles of General College Chemistry II	5
COMM-220	Introduction to Intercultural Communication	3
ENSI-119	Introduction to Environmental Science	4
ENSI-225	International Environmental Issues	3
GEOL-101	Physical Geology	4
MATH-160	Survey of Calculus	4
or MATH-170	Calculus I	
Program Electives		
Select two courses from the following:		6-8
AIST-250	American Indian Sovereignty and Federal Policy	
BACT-250	General Microbiology	
BIOL-231	General Ecology	
BTNY-203	General Botany	
GIST-271	Introduction to Geographic Information Science and Technology Using GIS (Geographic Information Systems)	
PHYS-111	General Physics I	
MATH-253	Statistical Methods	
ZOOL-202	General Zoology	
Total Credits		**60-64**

[1] This General Education Requirement is met by the Program Requirements.
[2] This General Education Requirement is partially met by the Program Requirements.

Course Key

GEM	AAS Institutionally Designated	Gateway	Milestone

Program Outcomes

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

1. Apply foundational knowledge of environmental science including biodiversity, human population growth, water resource use, toxicology, climate impacts and sustainable development to environmental problems on a regional and global scale.
2. Describe and differentiate the major systems of the Earth (atmosphere, biosphere, hydrosphere, lithosphere).
3. Apply the concepts of deep time and biological evolution to biodiversity loss and extinction.
4. 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.
5. 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.