

ENVIRONMENTAL GEOGRAPHY (B.S.)

Bachelor of Science Program

Program Code: BS-AS

Major Code: EVG

Geosciences Department

160 Science and Math Complex

(716) 878-6731

geosciences.buffalostate.edu/ (<http://geosciences.buffalostate.edu/>)

geosciences.buffalostate.edu/

Environmental geography is a subfield in geography that explores human-environment interactions. The B.S. in Environmental Geography provides students with the opportunity to study how humans impact, manage, and conserve the natural environment, including landforms, water and soil resources, climate, and plant and animal communities. Courses in the program focus on understanding processes and patterns in the natural environment, as well as quantitative analysis and applied, hands-on experiences in the classroom and in the field. The program emphasizes the use of geographic tools, such as Geographic Information Systems (GIS) and remote sensing, to prepare students with the skills to identify, explain, and find meaning in human-environment interactions.

Code	Title	Credit Hours
------	-------	--------------

General Education 23 Requirements (http://ecatalog.buffalostate.edu/undergraduate/collegewide-degree-requirements-baccalaureate-degrees/#IF_Courses)

33 credit hours	33
-----------------	----

Required Courses (18 credit hours)

GEG 101	WORLD NATURAL ENVIRONMENTS	3
---------	----------------------------	---

GEG 102	HUMAN GEOGRAPHY	3
---------	-----------------	---

GEG 325	MAPS AND MAPMAKING USING GIS	3
---------	------------------------------	---

GEG 390	QUANTITATIVE METHODS IN GEOSCIENCES	3
---------	-------------------------------------	---

or MAT 311 INTRODUCTORY PROBABILITY AND STATISTICS

GEG 396	RESEARCH METHODS	3
---------	------------------	---

Select one course from the following:

GEG 300	WORLD REGIONAL GEOGRAPHY	3
---------	--------------------------	---

GEG 359	ARCTIC GEOGRAPHY FROM AN INUIT PERSPECTIVE	3
---------	--	---

GEG 360	GEOGRAPHY OF ASIA	3
---------	-------------------	---

GEG 362	GEOGRAPHY OF THE UNITED STATES AND CANADA	3
---------	---	---

Environmental Geography electives selected by advisement (12 credit hours)

ENS 300	ENVIRONMENTAL CASE STUDIES
---------	----------------------------

GEG 307	CONSERVATION AND ENVIRONMENTAL MANAGEMENT
---------	---

GEG 365	SOIL SCIENCE AND MANAGEMENT
---------	-----------------------------

GEG 383	EXTREME WEATHER
---------	-----------------

GEG 386	WEATHER AND SOCIETY
---------	---------------------

GEG 418	REMOTE SENSING
---------	----------------

GEG 421	WATERSHED ANALYSIS
---------	--------------------

GEG 423	BIOGEOGRAPHY
---------	--------------

GEG 478	GLOBAL CHANGE
---------	---------------

GES 307	GEOMORPHOLOGY
---------	---------------

General electives selected by advisement. Any three upper-division Geography courses (9 credit hours)	9
---	---

All College Electives	48
-----------------------	----

Total Credit Hours	120
--------------------	-----

Students will:

1. demonstrate the ability to answer questions by synthesizing geographic knowledge (i.e., Six Elements of Geography: A spatial world view; place and regions; physical systems; human systems; environment and society; and the uses of geography)
2. be able to acquire geographic information and assemble ideas and information from geographic literature and scholarship, and from primary and secondary sources.
3. be able to organize geographic information into maps, graphs, and other visual representations and analyze geographic information to seek patterns, relationships, and connections.
4. be able to prepare and deliver clear and convincing written presentations.
5. be able to prepare and deliver clear and convincing oral presentations.