

Environmental Health

Bachelor of Science

Career Choices:

- Public Health Officer
 - Environmental Technician
 - Registered Sanitarian
 - Environmental Scientist
-

Student Profile:

Do you ...

- have an interest and concern for the environment?
- want to work to protect the environment and people?
- enjoy working outdoors and with others?
- have strong writing, listening and speaking skills?

Program Description:

The B.S. environmental health program is accredited by the National Environmental Health Science and Protection Accreditation Council.

The B.S. in environmental health is offered in response to strong student, state and local government demand for an academic program to prepare students for careers in public health, environmental health and related fields. Graduates of this program will be prepared to seek employment in jobs with titles like public health officer, environmental technician, and scientist, as well as many others. After working in the field for a period of time, graduates may sit for the Registered Sanitarian (RS) examination and achieve state certification, or for the Registered Environmental Health Specialist (REHS) examination and achieve national certification.

This program is similar to the successful environmental science degree, but includes many required elements that are specifically directed to public health. These include courses in Geographic Information Systems and Global Positioning Systems, Hydrology and Groundwater, Toxicology and Epidemiology, Public Health Care and Public Administration. Students participate in an applied research project in close collaboration with faculty members to address meaningful environmental health problems. These projects, through the excellent preparation they provide our students, are often cited as important factors in successful job searches and entry into graduate programs.

Career Descriptions:

Public Health Officer — Works with local public health offices to protect citizens and the environment; develops and implements public health initiatives and enforces existing environmental regulations.

Environmental Technician — Responsible for groundwater sampling, soil sampling and other field-based efforts; develops reports.

Registered Sanitarian — Through experience and expertise, you can sit for professional certification, which provides enhanced employment and advancement opportunities for individuals working within public health venues.

Environmental Scientist — Develops schedules and budgets; plans and implements activities including field work, documentation, data analysis, public involvement and environmental analysis.

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Degree Requirements (92 credits)

BIOL131	General Biology: Cells	4
BIOL132	General Biology: Organisms	4
BIOL204	General Microbiology	4
BIOL280	Biometrics	3
CHEM115	General Chemistry I	5
CHEM116	General Chemistry II	4
CHEM220	Survey of Organic Chemistry	4
	<i>or</i>	
CHEM225	Organic Chemistry and	4
CHEM226	Organic Chemistry II	4
CHEM231	Quantitative Analysis	4
CHEM332	Instrumental Analysis	4
CHEM353	Introductory Toxicology	3
ECON202	Principles of Macroeconomics	3
ECON307	Environmental Economics	3
EVRN126	Interpretation of Maps and Aerial Photography	2
EVRN131	Introduction to GPS and GIS	2
EVRN285	Principles of Epidemiology	3
EVRN311	Environmental Law	3
EVRN313	Solid & Hazardous Waste	3
EVRN341	Environmental Chemistry I: Water and Water Pollution Control	4
EVRN395	Junior Seminar	1
EVRN425	Environmental Systems Analysis	3
EVRN495	Senior Project	1
EVRN499	Senior Seminar	1
GEOL411	Hydrological Systems: Surface and Groundwater	4
HLTH210	Intro. to Health Care Concepts	3
HLTH328	Multicultural Approach to Health Care	3
INTD399	Internship in Environmental Health	4
NCSI103	Environmental Science	3
PHYS221	Principles of Physics I	4

Other Departments (10 credits)

MATH112	Calculus for Business & Life Sciences	4
	<i>or</i>	
MATH151	Calculus I	4
MATH207	Principles of Statistical Methods	3
POLI201	Intro. to Public Administration	3

Directed Electives (9 credits)

Select from the following:

BIOL220	Genetics	4
BIOL230	Introduction to Soil Science	4
BIOL422	Parasitology	3
CHEM342	Environmental Chemistry II: Air and Solid Wastes	4
CHEM451	Introductory Biochemistry	4
EVRN231	Intermediate GIS	2
INTD300	The Human Environment	3
POLI342	International Environmental Policy	3

Other General Education (25 credits)

COMM101	Fund. of Speech Communication	3
ENGL110	First-Year Composition I	3
ENGL111	First-Year Composition II	3
	Approved Social Science*	3
	Approved Social Science*	3
	Social Science Diversity*	3
HUMN251	Humanities I	4
	Approved Humanities*	3

**Consult list for approved courses*

A minimum of 124 credits must be earned for graduation with a 2.50 cumulative grade point average and a 2.50 major grade point average.

Bachelor of Science Degree:

At least eight (8) semester credits *in addition* to courses used for general education requirements from categories of social science, natural science or mathematics.

These bachelor of science degree requirements can be used for majors or minors, but not general education.