

Center for Environmental
Research and Education



envscience@duq.edu

B.S. Environmental Science Curriculum

Required Environmental Science

ENVI 472– Environmental Biology
ENVI 452– Environmental Chemistry
ENVI 551– Principles of Environmental Science
ENVI 670– Environmental Toxicology

Biology (15 Credits)

BIOL 111/113– Biology I
BIOL 112/114– Biology II
BIOL 212– Cell and Molecular Biology
BIOL 319– Gen. Microbiology

Chemistry (18 Credits)

CHEM 121– Gen. Chemistry I
CHEM122– Gen. Chemistry II
CHEM211– Organic Chemistry I
CHEM 211L– Organic Chemistry Lab I
CHEM 212– Organic Chemistry II
CHEM 212L– Organic Chemistry Lab II

Physics (8 Credits)

PHYS 201– Physics for Life Sciences I
PHYS 202– Physics for Life Sciences II

MATH (13 Credits)

MATH 115– Calculus 1
MATH 225– Intro to Biostatistics
MATH 333– Biostatistics II
Math or Computational Science Elective

BSNES CORE (13 Credits)

ENGL 302– Science Writing
HIST 307– History of Science
SPRG 105– Career Dev. Seminar
General Electives (6 Credits)

University Core (28 credits)

UCOR 101– Thinking and Writing
UCOR 102– Literature and Creative Writing
UCOR 132– Basic Philosophy Questions
UCOR 14X– Theology
COSC 030– Research/Info Skills
1 Course in Ethics
1 Course in Creative Arts
1 Course in Faith and Reason
1 Course in Global Diversity
1 Course in Social Justice

Environmental Science Electives

*Students must take a minimum of 21 credits from this section.
**Students must take at least one field course and may choose from ENVI 466, ENVI 492, ENVI 494, or other field course approved by the faculty mentor.

BIOL 335– Vertebrate Anatomy, Dev. and Evolution
BIOL 340– Evolution
BIOL 398– Undergraduate Research

Environmental Science Electives Con't

BIOL 399– Undergraduate Research
CHEM 230L– Research Lab Techniques
CHEM 301– Physical Chemistry for Life Science
CHEM 423– Analytical Chemistry
CHEM 504– Microwave Enhanced Chemistry
CHEM 321– Physical Chemistry I
CHEM 565– Advanced Instrumental Analysis
ENVI 391– Environmental Experience in China
ENVI 466– Terrestrial Field Biology
ENVI 491– Environmental Hydrogeology
ENVI 492– Stream Field Biology
ENVI 497– Applied and Environmental Microbiology
ENVI 499– Microbial Ecology
ENVI 494– Environmental Sampling
ENVI 541– Environmental Policy and Law
ENVI 570– Air Pollution Prevention and Control
ENVI 571– Water Pollution Prevention and Control

NOTE: Other electives, including courses at other institutions, may be approved by the student's faculty mentor.