



Bachelor of Science in Environmental Science



Required courses: 4 courses

GEO101 Earth Systems Science,
GEO106 Global Climate Change and
GEO105 Earth, Env. and Climate Lab

OR

GLY101 Natural Hazards, GLY102
Climate Change and GLY105 Natural
Hazards and Climate Change Lab

BIO200 Evolutionary Biology

Core Science: 4 courses

Chemistry: CHE101 & CHE113–CHE102
& CHE114, **OR** CHE105–CHE106 **OR**
CHE107–CHE108

Physics: PHY101–PHY102 **OR** PHY107–
PHY108

Core Math: 2 courses

MTH121–MTH122 Survey of Calculus
and Its Applications I & II **OR** MTH141–
MTH142

Statistics: 1 course

GEO211 Univariate Statistics in Geo
STA119 Statistical Methods
Or equivalent

Core Environmental: 5 courses

CIE340 Environmental Engineering
EVS250 Environmental Justice **OR**
PHI234 Environmental Ethics
EVS309 Ecology
GEO481 Geographic Information
Systems
GLY308 Intro to Geochemistry **OR**
GLY462 Aqueous Geochemistry

Senior Capstone: 1 course

CIE447 Sustainability
GEO470 Integrated Env. Mgmt.
GLY479 Carbon Reduction Challenge

Field Methods and Data Collection:

1 course

EVS310 Ecological Methods

Electives: 5 courses

Electives provide a body of course work that will prepare a student for a defined area within the field of environmental science. We call this "your jam", and the electives you choose from below will develop this specialty. This is the pre-approved list but we will accept petitions in advance for individualized coursework within your chosen focus area. Please see the Environmental Science Advisors for further info.

BIO318 Plant Biology
BIO437 Pattern & Process
CHE349 Physical Chemistry for Life Sciences
CHE413 & CHE 414 Instrument Analysis and Lab
CHE470 Analytical Chemistry of Pollution
CIE341 Environmental Engineering Science

CIE441 Pollutant Fate and Transport
CIE447 Sustainability *Capstone Approved
EVS315 Field Ecology
EVS321 The Environmental Impact of War
EVS326 Great Lakes Ecology
EVS345 Water and Society

EVS350 Water Quality
 EVS360 Environmental Impact Statement
 EVS385 Energy, Environment and Society
 EVS409 Advanced Ecology
 EVS411 Marine Ecology
 EVS412 Field Course in Tropical Marine Ecology
 EVS424 Environmental Sustainability in Practice
 EVS441 Wildlife and Wildlands Management
 EVS445 Restoration Ecology
 EVS452 Limnology
 EVS463 Soil Ecology
 EVS472 Tropical Environments
 EVS413 Ecology of Invasive Species
 EVS493 Ecology of Unique Environments
 EVS495 Undergraduate Student Teaching
 EVS496 Environmental Internship
 EVS498 Undergraduate Research
 EVS499 Independent Study
 GEO344 Climate and Weather
 GEO345 Water Resources
 GEO347 Climatic Geomorphology
 GEO350 Landform Field and Laboratory Techniques
 GEO352 Introduction to Soils
 GEO356 Forest Ecology

GEO381 Cartography
 GEO435 Conservation Biogeography
 GEO446 Global Change Ecology
 GEO449 Fluvial Geomorphology
 GEO470 Integrated Env Management *Capstone Approved
 GEO475 Landscape modeling with GIS
 GEO479 GIS for Environ Modeling (with lab)
 GEO483 Remote Sensing
 GEO498 Undergraduate Research
 GLY308 Intro to Geochemistry
 GLY312 Surface Process and Hydrology
 GLY414 Hydrogeology
 GLY419 Environmental Geophysics
 GLY428 Geological Hazards and Risk
 GLY429 Analysis of Geologic Data
 GLY453 Quaternary Dating and Paleoclimate
 GLY458 Macroevolution
 GLY465 Environmental and Geological Remote Sensing
 GLY479 Climate Reduction Challenge *Capstone Approved

Credits for major: 79

Additional credits for UB curriculum: 32

Additional Electives: 9

Total credits for degree: 120