

ENVIRONMENTAL SCIENCE MAJOR (COMPREHENSIVE)

Curriculum

63 total credits

Code	Title	Hours
Core Classes		
ENSC 100	Environmental Science	2.00
BIOL 130	Principles of Biology I	4.00
BIOL 132	Principles of Biology II	4.00
CHEM 105	General Chemistry I	5.00
CHEM 106	General Chemistry II	4.00
GEOL 110	The Dynamic Earth (or)	4.00
GEOL 120	Our Water Resources	
MATH 113	Algebra with Applications ¹	3.00
ENSC 200	People and the Environment: Challenges & Actions	3.00
GEOG 241	Fundamentals of GIS I	4.00
BIOL 340	Ecology and Evolutionary Biology	4.00
ECON 335	Ecological Economics ^{2,3}	3.00
or SMGT 235	Economics in Society and Sustainability	
ENSC 350	Environmental Science Research Methods	2.00
LSTU 303	Environmental Law and Regulation	3.00
Two Required Capstone Courses		
Select one of the following:		1.00-4.00
ENSC 491 & ENSC 497	Research in Environmental Science and Environmental Science Senior Experience Seminar	
ENSC 496 & ENSC 497	Internship in Environmental Science and Environmental Science Senior Experience Seminar	
Elective Classes		
Select 15 credits of the following: ⁴		15.00
BIOL 312	Biogeography and Conservation	
BIOL 325	Plant Taxonomy	
BIOL 350	Limnology	
BIOL 355	Microbiology	
BIOL 356	Microbiology Laboratory	
BIOL 364	Invertebrate Biology	
BIOL 380	Vertebrate Biology	
BIOL 382	Ichthyology	
BIOL 415	Ecology and Management of Forest Ecosystems	
BIOL 420	Field Biology	
CHEM 305	Quant Analysis Lecture	
CHEM 306	Quantitative Analysis Laboratory	
CHEM 320	Organic Chemistry Lecture I	
CHEM 321	Organic Chem Lecture II	
CHEM 322	Organic Chemistry Lab I	
CHEM 323	Organic Chemistry Lab II	
COMM 419	Environmental Communication	

ENSC 381	Environmental Science Special Topics
GEOG 343	Fundamentals of GIS II
GEOG 357	Advanced Topics in Human/Environment Interaction
GEOG 442	Advanced Principles of GIS
GEOL 315	Climatology
GEOL 360	Geomorphology
PHIL 255	Environmental Ethics
SMGT 250	Sustainable Agriculture and Food Security
SMGT 305	Climate Change and Sustainability
SMGT 320	Renewable Energy for Sustainable Management
SMGT 325	Natural Resource Management
SMGT 460	Environment and Society
WRIT 308	Nature, Environmental, and Scientific Writing
WRIT 310	Grant Writing
Total Hours	61.00-64.00

¹ MATH 115 Precalculus, MATH 151 Calculus for Business, Life, and Social Sciences, or MATH 240 Calculus and Analytic Geometry I may be completed in place of MATH 113 Algebra with Applications.

² ECON 335 Ecological Economics has pre-requisite courses: ECON 250 Principles of Microeconomics and ECON 251 Principles of Macroeconomics, or ECON 235 Economics in Society.

³ SMGT 235 Economics in Society and Sustainability is only offered online. Online classes are charged separately from on-campus classes, and therefore they are not included in the 12-18 credit tuition plateau.

⁴ At least 15 credits from at least two disciplines (i.e., prefixes); 11 credits must be taken at the 300 level or higher