

**TOTAL CREDITS REQUIRED FOR THE B.S.,** including the new General Education Program = 120 credits including: **83** credits in the major; **21-27** credits for General Education courses; and **10-16** elective credits.

**Required Fundamental Courses and Background (39 credits).**

<u>Course</u>	<u>Title</u>	<u>Cr</u>
All three:		
ENSP 101	Intro. to Environmental Science	3
ENSP 102	Intro. to Environmental Policy	3
ENSP 400	Capstone in Env. Sci & Policy	3
Calculus:		
MATH 140	Calculus I	4
Statistics (one):		
BIOM 301	Introduction to Biometrics	3
GEOG306	Quant. Methods in Geog. Env. Sci.	3
STAT 400	Applied Prob and Statistics I	3
Chemistry (one):		
CHEM 131/132 <i>or</i>	General Chemistry I	3/1
CHEM 135/136	Chemistry for Engineers	3/1
Earth Sciences:		
ENST 200 <i>and</i>	Fundamentals of Soil Science <i>and</i>	4
GEOL120/110 <i>or</i>	Environmental Geology/Lab <i>or</i>	3/1
GEOL100/110	Physical Geology/Lab	3/1
Biology:		
BSCI 106	Principles of Biology II	4
Govt & Politics (one):		
AREC 332	Intro. to Natural Resource Policy	3
ENSP 330	Intro. to Environmental Law	3
ENSP 340	Sci., Ethics, and Law of Water	3
GVPT 273	Intro. to Environmental Politics	3
Economics (one):		
AREC 240	Intro. to Economics and the Envir	4
ECON 200	Principles of Micro-Economics	4

**Basic Sciences (12 credits)**

<u>Course</u>	<u>Title</u>	<u>Cr</u>
CHEM 231/232	Organic Chemistry I and Lab	4
MATH141	Calculus II	4
PHYS141 <i>or</i>	Principles of Physics <i>or</i>	4
PHYS161/PHYS174	Gen Physics: Mech and Part Dyn & Lab	3/1

**Upper Level Requirements (17 credits)**

<u>Course</u>	<u>Title</u>	<u>Cr</u>
BSCI 361	Principles of Ecology	4
GEOL 340	Geomorphology	4
GEOL451 <i>or</i> GEOL452	Groundwater <i>or</i> Watershed and Wetland Hydrology	3
GEOL453	Princ and Prac of Ecosystem Restoration	3
ENSP 386	Internship	3

**Areas of Depth (15 credits)** – including at least 5 classes *and* [a minimum of 6 credits from each of two areas] *or* [a minimum of 9 credits in one area]

<u>Course</u>	<u>Title</u>	<u>Cr</u>
Techniques and Application:		
GEOG372	Remote Sensing	3
GEOG373	Geographic Info Systems	3
Environmental Restoration:		
ENST 414	Soil Morph Genesis and Classif.	4
ENST 421	Soil Chemistry	4
ENST 422	Soil Biochem & Microbial Ecol.	3
ENST 423	Soil-Water Pollution	3
ENST 430	Wetland Soils	3
ENST 450	Wetland Ecology	3
ENST452	Wetland Creation and Restoration	3
PLSC471	Forest Ecology	3
Surficial Geology:		
GEOL 322	Mineralogy	4
GEOL 342	Sedimentation and Stratigraphy	4
GEOL 436	Biogeochemistry	3
GEOL 437	Global Climate Change Past/Pres.	3
GEOL 444	Low-Temperature Geochemistry	4
GEOL451*	Groundwater*	3
GEOL452*	Watershed and Wetland Hydrology*	3
* If not taken to satisfy upper level requirement above		
Deep-Earth Geology:		
GEOL102	Historical Geology	4
GEOL341	Structural Geology	4
GEOL423	Optical Mineralogy	3
GEOL443	Petrology	4
GEOL445	High-Temperature Geochemistry	4
GEOL446	Geophysics	3
GEOL455	Marine Geophysics	3
GEOL456	Engineering Geology	3
GEOL457	Seismology	3