

ECOLOGICAL ENGINEERING MAJOR

(128 credits)

Fall 1st Year 16 cr.	CHEM 1035 (3) General Chemistry	CHEM 1045 (1) General Chemistry Lab	MATH 1225 (4) Calculus for Science	ENGE 1215 (2) Foundations of Engineering	ENGL 1105 (3) First-Year Writing	Pathways (3)	
Spring 1st Year 16 cr.	CHEM 1036 (3) General Chemistry Pre: CHEM 1035 Spring, Summer 1 & 2	ENGL 1106 (3) Freshman English ⁵ Pre: ENGL 1105	PHYS 2305 (4) Foundations of Physics Pre: MATH 1225 Co: MATH 1226	MATH 1226 (4) Calculus for Science Pre: MATH 1225	ENGE 1216 (2) Exploration of Engineering Design Pre: ENGE 1215		
Fall 2nd Year 17 cr.	ISE 2014 (2) Engineering Economy	MATH 2114 (3) Intro to Linear Algebra Pre: Math 1225 (min. grade B) or MATH 1226	MATH 2204 (3) Multivariable Calculus Pre: Math 1226	ESM 2104 (3) Statics Pre: MATH 1226	BIOL 1105 (3) Principles of Biology Fall, Summer, Winter	BSE 2004 (3) Intro to BSE Pre: ENGE 1215 Fall Only	
Spring 2nd Year 15 cr.	MATH 2214 (3) Differential Equations Pre: MATH 2114 & 1226	BSE 2304 (3) Landscape Measurement & Modeling Spring Only	BIOL 1106 (3) Principles of Biology Spring, Summer, Winter	CHEM 2514 (3) Survey of Org Chem Pre: CHEM 1035, 1036, 1045 Fall, Spring, Summer	ENSC 3134 (3) Soils in the Landscape Spring Only		
Fall 3rd Year 16 cr.	ESM 3024 (3) Intro Fluid Mechanics Pre: ESM 2104, PHYS 2305 Fall Only	BSE 3154 (3) Thermodynamics of Biological Systems Pre: CHEM 1036, PHYS 2305, MATH 2204 Fall Only	BSE 3324 (3) Small Watershed Hydrology Pre: PHYS 2305 Fall Only	BIOL 2604 (3) General Microbiology Pre: BIOL 1105, 1106, CHEM 1035, 1036 Fall, Spring, Summer, Winter	PHYS 2306 (4) Foundations of Physics Pre: MATH 1226, PHYS 2305		
Spring 3rd Year 17 cr.	BSE 3144 (2) Engineering Analysis for Biological Systems Spring Only	BSE 3504 (3) Transport Processes in BSE Pre: BSE 3154, ESM 3024 Spring Only	BSE 3334 (3) NPS Assessment & Control Pre: BSE 3324 Spring Only	BIOL 2804 (3) Ecology Fall, Spring, Summer	ISE 3034 (3) Technical Communication for Engineers Spring & Summer	BSE 4344 (3) GIS for Engineers Pre: BSE 3324 Spring Only	
Fall 4th Year 16 cr.	ENGR 3124 (3) Intro to Green Engineering Fall, Spring	BSE 4125 (2) Comprehensive Design Project Pre: BSE 3324 & 3334 Fall Only	BSE 4324 (3) Applied Fluvial Geomorphology Pre: BSE 3324 Fall Only	STAT 3704 (2) Statistics for Engineering Applications Pre: MATH 2204	Pathways (3)		Pathways (3)
Spring 4th Year 15 cr.	BSE 4126 (3) Comprehensive Design Project Pre: BSE 4125 Spring Only	ENGR 4134 (3) Environmental Life Cycle Assessment Pre: ENGR 3124 Spring Only	Ecological Engineering Elective (3)		Pathways (3)		Pathways (3)