

*Recommended course pathway for BSE students interested in careers in*  
**ENVIRONMENTAL HEALTH ENGINEERING**  
(128 credits)

<b>Fall 1st Year 16 cr.</b>	<b>CHEM 1035 (3)</b> General Chemistry <sup>5</sup>	<b>CHEM 1045 (1)</b> General Chemistry Lab <sup>5</sup>	<b>MATH 1225 (4)</b> Calculus for Science <sup>5</sup>	<b>ENGE 1215 (2)</b> Foundations of Engineering <sup>5</sup>	<b>ENGL 1105 (3)</b> First-Year Writing <sup>5</sup>	<b>Pathways (3)</b>
<b>Spring 1st Year 16 cr.</b>	<b>CHEM 1036 (3)</b> General Chemistry <sup>5</sup> Pre: CHEM 1035 Spring, Summer	<b>ENGL 1106 (3)</b> Freshman English <sup>5</sup> Pre: ENGL 1105	<b>PHYS 2305 (4)</b> Found of Physics <sup>5</sup> Pre: MATH 1225 Co: MATH 1226	<b>MATH 1226 (4)</b> Calculus for Science <sup>5</sup> Pre: MATH 1225	<b>ENGE 1216 (2)</b> Exploration of Engineering Design <sup>5</sup> Pre: ENGE 1215	
<b>Fall 2nd Year 18 cr.</b>	<b>CHEM 2514 (3)</b> Survey of Org Chem <sup>2</sup> Pre: CHEM 1035, 1036, 1045 Fall, Spring, Summer	<b>MATH 2114 (3)</b> Intro to Linear Algebra Pre: Math 1225 (min. grade B) or MATH 1226	<b>MATH 2204 (3)</b> Multivariable Calculus Pre: Math 1226	<b>ESM 2104 (3)</b> Statics Pre: MATH 1226	<b>BIOL 1105 (3)</b> Principles of Biology Fall, Summer, Winter	<b>BSE 2004 (3)</b> Intro to BSE Pre: ENGE 1215 Fall Only
<b>Spring 2nd Year 15 cr.</b>	<b>MATH 2214 (3)</b> Differential Equations <sup>5</sup> Pre: MATH 2114 & 1226	<b>BSE 2304 (3)</b> Landscape Measurement & Modeling <sup>1</sup> Spring Only	<b>BIOL 1106 (3)</b> Principles Biology Spring, Summer, Winter	<b>BSE 3144 (2)</b> Engineering Analysis for Biological Systems Spring Only		<b>PHYS 2306 (4)</b> Foundations of Physics Pre: MATH 1226, PHYS 2305
<b>Fall 3rd Year 14 cr.</b>	<b>ESM 3024 (3)</b> Intro Fluid Mechanics Pre: ESM 2104, PHYS 2305 Fall Only	<b>BSE 3154 (3)</b> Thermodynamics of Biological Systems Pre: CHEM 1036, PHYS 2305, MATH 2204 Fall Only	<b>BSE 3324 (3)</b> Small Watershed Hydrology <sup>1</sup> Pre: PHYS 2305 Fall Only	<b>STAT 3704 (2)</b> Statistics for Engineering Applications Pre: MATH 2204	<b>Pathways (3)</b>	
<b>Spring 3rd Year 18 cr.</b>	<b>BIOL 2604 (3)</b> General Microbiology Pre: BIOL 1105, 1106, CHEM 1035, 1036 Fall, Spring, Summer, Winter	<b>BSE 3504 (3)</b> Transport Processes BSE Pre: BSE 3154, ESM 3024 Spring Only	<b>BSE 3334 (3)</b> NPS Assessment & Control <sup>1</sup> Pre: BSE 3324 Spring Only	<b>CEE 3104 (3)</b> Intro Environmental Engineering <sup>3</sup> Pre: PHYS 2305, MATH 1226, CHEM 1035 & 1045 Fall, Spring, Summer	<b>ISE 3034 (3)</b> Technical Communication for Engineers <sup>5</sup> Spring & Summer	<b>BSE 4344 (3)</b> GIS for Engineers <sup>1</sup> Pre: BSE 3324 Spring Only
<b>Fall 4th Year 16 cr.</b>	<b>ISE 2014 (2)</b> Engineering Economy	<b>BSE 4125 (2)</b> Comprehensive Design Project Pre: BSE 3324 & 3334 Fall Only	<b>CEE 4104 (3)</b> Water & Wastewater <sup>3</sup> Pre: CEE 3104, CEE 3304 (will take ESM 3024 also) Fall Only	<b>Pathways (3)</b>	<b>Pathways (3)</b>	<b>Pathways (3)</b>
<b>Spring 4th Year 15 cr.</b>	<b>BSE 4126 (3)</b> Comprehensive Design Project Pre: BSE 4125 Spring Only	<b>BIOL/CEE/CS/ENSC 4164 (3)</b> Environmental Microbiology <sup>4</sup> Pre: BIOL 2604 Spring Only	<b>CEE 4114 (3)</b> Fundamentals of Public Health Engineering <sup>3</sup> Pre: CEE 3104 Spring Only	<b>BSE Elective (3)</b>	<b>ENSC 4314 (3)</b> Water Quality <sup>4</sup> Pre: MATH 1226, BIOL 1105, CHEM 1035 Spring Only	

<sup>1</sup> BSE Elective; <sup>2</sup> Chemistry Elective; <sup>3</sup> Engineering Elective; <sup>4</sup> Technical Elective; <sup>5</sup> Pathways

Other technical elective option: BSE 4394