

ADVANCED OUTCOMES IN THE MAJOR AREA

DISCIPLINE: ENVIRONMENTAL SCIENCE

Discipline Outcomes	Advanced Level Abilities	
	Primary Focus	Related Focus
<p><b>DATA GATHERING/ANALYSIS</b></p> <p>1. Demonstrates proficiency in inquiry based search strategies in environmental data gathering.</p> <p>2. Uses appropriate data to evaluate risk assessment and propose reasonable action as an effective citizen.</p> <p>3. Integrates frameworks drawn from multiple disciplines to analyze environmental issues and practices and accurately identifies the strengths and limitations of the analysis.</p>	<p>Analysis, 5 Analysis, 6</p> <p>Analysis, 5 Analysis, 6</p> <p>Analysis, 5 Analysis, 6 Developing a Global Perspective, 5 Valuing in Decision Making, 5</p>	<p>Quant Lit, 5</p>
<p><b>EFFECTIVE COMMUNICATION/LISTENING AND PERSUASION</b></p> <p>1. Responds to ideas from various perspectives and formulates viable approaches to environmental issues that could be implemented.</p> <p>2. Communicates about environmental research based on credible laboratory and field data.</p> <p>3. Communicates effectively to various audiences using language, concepts, models, and strategies of environmental sciences.</p>	<p>Problem Solving, 5 Problem Solving, 6</p> <p>Problem Solving, 5 Problem Solving, 6</p> <p>Communication, 5</p>	<p>Quant Lit, 5 Quant Lit, 6</p>
<p><b>PROBLEM MANAGEMENT/ADAPTIVE STRATEGIES</b></p> <p>1. Designs and conducts environmental research based on appropriate technology, laboratory, and field data.</p> <p>2. Explores the complexity and interconnected nature of environmental issues and articulates a contextualized and pragmatic response.</p> <p>3. Professionally applies her disciplined-based learning in an off-campus setting.</p>	<p>Problem Solving, 5 Problem Solving, 6</p> <p>Communication, 5 Developing a Global Perspective, 5 Developing a Global Perspective, 6</p> <p>Problem Solving, 5 Problem Solving, 6 Valuing in Decision Making, 5</p>	

Advanced Level Courses required for the Major (taken collectively this set of courses in various combinations contributes to the achievement of the outcomes of the major):

Required	Electives
BI 251 Microbiology BI 341 Ecology	Choose 1 of the following 4: MT 148 Functions and Modeling MT 256 Probability and Statistics MT 152 Calculus 1 PH 231 General Physics 1
CH 213 Chemistry Survey, Biochemistry CH 234 Analytical Chemistry	Choose 1 of the following 3: GLS 370 World Geography GLS 330 The United Nations and the World GLS 396 International Economics
ENV 341 Geographic Information Systems	Choose 1 of the following 2: BI 301 Advanced Microbiology: Microbial Ecology <i>or</i> CH 337 Instrumental Methods of Analysis
ENV 399 Advanced Level Event	<b>Choose at least two elective courses from approved courses in the sciences, mathematics, management, community leadership, or professional communication.</b>
ENV 383 Internship Seminar ENV 374 External Assessment for Effective Citizenship	
ENV 491 Senior Environmental Seminar	
GE 220 Earth Science GE 410 Environmental Geology	
MGT 210 Economic Environment	