

## BA/BS in Human & Environmental Systems

Courses and Activities Mapped to BA/BS in Human & Environmental Systems Outcome Set

<b>Interdisciplinary (core)</b> To understand that environmental issues are fundamentally interdisciplinary	<b>Physical and Cultural Interconnectedness (core)</b> Understand the interconnectedness of ecological systems to the physical and cultural world	<b>Data Analysis (core)</b> Understand how to collect, analyze, interpret, qualitative and quantitative data collected in the field and laboratory	<b>Environment and Culture</b> Comprehend how the environment contributes to the construct of cultures and societies worldwide	<b>Communication (core)</b> Effectively synthesize and communicate research findings both orally and in writing	<b>Adaptation (anthropology concentration)</b> Understand how adaptations to environments shape human traits, both physical and behavioral, through time and across space	<b>Cultural Diversity (anthropology concentration)</b> Recognize human physical and cultural diversity within as well as between populations	<b>Geographic Patterns (geography concentration)</b> Understand geographic patterns and issues of our time through the use of geographic representations	<b>Geo-spatial analysis (GIScience &amp; geography concentrations)</b> Apply Geographic Information Systems, Remote Sensing, and quantitative analysis to uncover human and environmental processes which create patterns in the landscape	<b>Geographic Modeling (GIScience concentration)</b> Understand commonly employed geographic data models and algorithms, and apply them appropriately to suggest solutions to real-world problems	
<b>Interdisciplinary</b> Demonstrate an understanding that environmental issues are fundamentally interdisciplinary	<b>Interconnectedness</b> Demonstrate an understanding of the interconnectedness of ecological systems to the physical and cultural worlds	<b>Data Analysis</b> Demonstrate an understanding of data collection, analysis, and interpret qualitative and quantitative data	<b>Environment and Culture</b> Demonstrate a comprehension of how the environment contributes to a construction of cultures and societies worldwide	<b>Communication</b> Demonstrate the ability to synthesize and communicate research findings both orally and in writing	<b>Adaptation</b> Demonstrate an understanding of human physical and behavioral adaptation through time and space	<b>Cultural Diversity</b> Demonstrate an understanding of human physical and cultural diversity within as well as between populations	<b>Geographic patterns</b> Demonstrate and understanding of geographic patterns and issues through the use of geographic representations	<b>Geo-spatial analysis</b> Demonstrate the ability to use GIS, remote sensing, and quantitative analysis to understand human and environmental processes which create patterns on the landscape	<b>Geographic modeling</b> Demonstrate an understanding of geographic data models and algorithms and apply them to real-world problems	<b>Geographic Problem Solving (Geography Concentration)</b> Understand geographic patterns and issues of our time through the use of geographic representations

<b>Courses and Learning Activities</b>										
ENVI 105 Introduction to Human Geography								<b>I</b>		<b>I</b>
ENVI 110 Introduction to Environmental Sciences	<b>I</b>	<b>I</b>								
ENVI 110L Environmental Sciences: Human and Environmental Change Laboratory	<b>I</b>									
ENVI 130 World Cultures and Environments	<b>I</b>	<b>I</b>		<b>I</b>						

	<b>Interdisciplinary (core)</b> To understand that environmental issues are fundamentally interdisciplinary	<b>Physical and Cultural Interconnectedness (core)</b> Understand the interconnectedness of ecological systems to the physical and cultural world	<b>Data Analysis (core)</b> Understand how to collect, analyze, interpret, qualitative and quantitative data collected in the field and laboratory	<b>Environment and Culture</b> Comprehend how the environment contributes to the construct of cultures and societies worldwide	<b>Communication (core)</b> Effectively synthesize and communicate research findings both orally and in writing	<b>Adaptation (anthropology concentration)</b> Understand how adaptations to environments shape human traits, both physical and behavioral, through time and across space	<b>Cultural Diversity (anthropology concentration)</b> Recognize human physical and cultural diversity within as well as between populations	<b>Geographic Patterns (geography concentration)</b> Understand geographic patterns and issues of our time through the use of geographic representations	<b>Geo-spatial analysis (GIScience &amp; geography concentrations)</b> Apply Geographic Information Systems, Remote Sensing, and quantitative analysis to uncover human and environmental processes which create patterns in the landscape	<b>Geographic Modeling (GIScience concentration)</b> Understand commonly employed geographic data models and algorithms, and apply them appropriately to suggest solutions to real-world problems	
	<b>Interdisciplinary</b> Demonstrate an understanding that environmental issues are fundamentally interdisciplinary	<b>Interconnectedness</b> Demonstrate an understanding of the interconnectedness of ecological systems to the physical and cultural worlds	<b>Data Analysis</b> Demonstrate an understanding of data collection, analysis, and interpret qualitative and quantitative data	<b>Environment and Culture</b> Demonstrate a comprehension of how the environment contributes to a construction of cultures and societies worldwide	<b>Communication</b> Demonstrate the ability to synthesize and communicate research findings both orally and in writing	<b>Adaptation</b> Demonstrate an understanding of human physical and behavioral adaptation through time and space	<b>Cultural Diversity</b> Demonstrate an understanding of human physical and cultural diversity within as well as between populations	<b>Geographic patterns</b> Demonstrate and understanding of geographic patterns and issues through the use of geographic representations	<b>Geo-spatial analysis</b> Demonstrate the ability to use GIS, remote sensing, and quantitative analysis to understand human and environmental processes which create patterns on the landscape	<b>Geographic modeling</b> Demonstrate an understanding of geographic data models and algorithms and apply them to real-world problems	<b>Geographic Problem Solving (Geography Concentration)</b> Understand geographic patterns and issues of our time through the use of geographic representations
ENVI 201 Prehistory and Climate Change						P					
ENVI 205 Introduction to Biological Anthropology						I	I				
ENVI 211 Physical Geography								I		I	
ENVI 212 Introduction to GIScience									I		
ENVI 240 Introduction to Quantitative Geography			I		P						
ENVI 308 Human Evolution							R				
ENVI 401 Geographic Information Systems: Applications									R		
ENVI 405 Fundamentals of Remote Sensing										R	

	<b>Interdisciplinary (core)</b> To understand that environmental issues are fundamentally interdisciplinary	<b>Physical and Cultural Interconnectedness (core)</b> Understand the interconnectedness of ecological systems to the physical and cultural world	<b>Data Analysis (core)</b> Understand how to collect, analyze, interpret, qualitative and quantitative data collected in the field and laboratory	<b>Environment and Culture</b> Comprehend how the environment contributes to the construct of cultures and societies worldwide	<b>Communication (core)</b> Effectively synthesize and communicate research findings both orally and in writing	<b>Adaptation (anthropology concentration)</b> Understand how adaptations to environments shape human traits, both physical and behavioral, through time and across space	<b>Cultural Diversity (anthropology concentration)</b> Recognize human physical and cultural diversity within as well as between populations	<b>Geographic Patterns (geography concentration)</b> Understand geographic patterns and issues of our time through the use of geographic representations	<b>Geo-spatial analysis (GIScience &amp; geography concentrations)</b> Apply Geographic Information Systems, Remote Sensing, and quantitative analysis to uncover human and environmental processes which create patterns in the landscape	<b>Geographic Modeling (GIScience concentration)</b> Understand commonly employed geographic data models and algorithms, and apply them appropriately to suggest solutions to real-world problems	
	<b>Interdisciplinary</b> Demonstrate an understanding that environmental issues are fundamentally interdisciplinary	<b>Interconnectedness</b> Demonstrate an understanding of the interconnectedness of ecological systems to the physical and cultural worlds	<b>Data Analysis</b> Demonstrate an understanding of data collection, analysis, and interpret qualitative and quantitative data	<b>Environment and Culture</b> Demonstrate a comprehension of how the environment contributes to a construction of cultures and societies worldwide	<b>Communication</b> Demonstrate the ability to synthesize and communicate research findings both orally and in writing	<b>Adaptation</b> Demonstrate an understanding of human physical and behavioral adaptation through time and space	<b>Cultural Diversity</b> Demonstrate an understanding of human physical and cultural diversity within as well as between populations	<b>Geographic patterns</b> Demonstrate and understanding of geographic patterns and issues through the use of geographic representations	<b>Geo-spatial analysis</b> Demonstrate the ability to use GIS, remote sensing, and quantitative analysis to understand human and environmental processes which create patterns on the landscape	<b>Geographic modeling</b> Demonstrate an understanding of geographic data models and algorithms and apply them to real-world problems	<b>Geographic Problem Solving (Geography Concentration)</b> Understand geographic patterns and issues of our time through the use of geographic representations
ENVI 407 Remote Sensing: Digital Analysis of Spectral Data										<b>R</b>	
ENVI 440 Human Ecology						<b>R</b>	<b>R</b>				
ENVI 446 Midwestern Arcaeology						<b>R</b>					
ENVI 449 Human Discovery						<b>R</b>					
ENVI 460 Conservation and Sustainability of Natural Resources	<b>R</b>	<b>R</b>		<b>R</b>	<b>R</b>						

**Legend:** I Introduced P Practiced R Reinforced

Last Modified: 10/19/2011 10:27:13 AM CST

## Interdisciplinary

Courses and Activities Mapped to BA/BS in Human & Environmental Systems Outcome Set

<b>Interdisciplinary</b> To understand that environmental issues are fundamentally interdisciplinary
<b>Interdisciplinary</b> Demonstrate an understanding that environmental issues are fundamentally interdisciplinary

### Courses and Learning Activities

ENVI 110 Intro Environmental Sciences	<b>I</b>
--	----------

**Legend:** **I** Introduced   **P** Practiced   **R** Reinforced

Last Modified: 10/19/2011 08:26:36 AM CST