ENVIRONMENTAL & SPATIAL SCIENCES, B.S.

Major in Environmental & Spatial Sciences				
Code	Title	Hours		
REQUIRED CORE GEOGRAPHY				
GEOG 130	Intro to Environmental Science	3		
GEOG 120	Human Geography	3		
Physical Geograp	phy or Geomorphology - Choose 1 of the following:	3		
GEOG 230	Physical Geography			
ESCI 225	Geomorphology			
GEOG 289	Field and Research Methods in Geography	3		
GEOG 408	Sustainable Development	3		
REQUIRED SPATIAL SCIENCE				
GEOG 281	Maps and GIS	3		
GEOG 292	Quantitative and Spatial Analysis	3		
GEOG 295	GIS I: Vector Data Analysis	3		
GEOG 296	GIS II: Raster Data Analysis	3		
SPATIAL SCIENC	E ELECTIVES			
undefined - Choo	se 2 of the following:	6		
GEOG 395	GIS for Web Development			
GEOG 384	Cartography			
GEOG 396	GIS Modeling			
GEOG 397	GIS Data Management			
ENVIRONMENTAL STUDIES ELECTIVES				
undefined - Choo	se 3 of the following:	9		
GEOG 304	Water Resources Management			
GEOG 305	Energy Sustainability			
GEOG 306	Environmental Impact Assessmnt			
GEOG 307	US Environmental Policy			
GEOG 333	Biogeography			
GEOG 336	Climate And Society			
GEOG 407	Glbl Envrnmtl Policy/Negotiatn			
REQUIRED CAPSTONE				
undefined - Choo	se 1 of the following:	3-12		
GEOG 300	Co-Op Ed Experience in Geog			
GEOG 488	Senior Thesis			
GEOG 489	Honors Thesis			
Total Hours		45-54		

Req Related for Environmental & Spatial Sciences

Code	Title	Hours	
REQUIRED RELATED ENVIRONMENTAL SCIENCE			
BIOL 100	General Biology	3	
CHEM 111	Introductory Chemistry 1	4	
CHEM 112	Introductory Chemistry 2	4	
Physical Geology or Intro to Oceanography - Choose 1 of the following:			
ESCI 221	Physical Geology		
ESCI 261	Introduction to Oceanography		
MATH 161	Calculus 1	4	

Physics I with Algebra or with Calculus - Choose 1 of the following: 4				
PHYS 131	Physics 1 with Algebra			
PHYS 231	Physics 1 with Calculus			
ENVIRONMENTAL SCIENCE REQ RELATED ELECTIVES				
undefined - Choose 6 hours from:				
BIOL 211	Concepts of Zoology			
BIOL 221	Concepts of Botany			
BIOL 340	Prspctv in Environm Awareness			
BIOL 343	Principles of Ecology & Evolution			
CHEM 235	Organic Chemistry			
CHEM 265	Quantitative Analysis			
CHEM 375	Environmental Chemistry			
CHEM 476	Environmental Chemistry 2			
ESCI 226	Geology of Earth and Energy Resources			
ESCI 241	Meteorology			
ESCI 245	Environmental Meteorology			
ESCI 322	Environmental Hydrology			
ESCI 326	Sedimentation and Stratigraphy			
ESCI 329	Aqueous Geochemistry			
ESCI 366	Marine Resources and Policy			
ESCI 385	Global Climate Change: Sci & Policy			
ESCI 422	Geological Field Mapping			
ESCI 426	Groundwater Resources and Contamination			
ESCI 466	Environmental Oceanography			
OSEH 435	Environmental Health			
PHYS 132	Physics 2 with Algebra			
PHYS 232	Physics 2 with Calculus			

A minor program of study is highly recommended. Examples include Biology, Chemistry, Computer Science, Earth Sciences, Environmental Chemistry, Environmental Hazards and Emergency Management, Environmental Policy Regulation, General Economics, Geology, Government and Political Affairs, Hydrology, Industrial and Environmental Health, Land Use, Mathematics, Meteorology, Occupational Safety Environmental Health, Oceanography, Physics, Quantitative Methods in Environmental Science, Science Writing, Social Justice, Sustainability Studies, Water Resources.

Total Hours 29-30