

ENVIRONMENTAL EARTH SCIENCES (4+1 MS)

Select six additional credits of graduate-level coursework chosen in concentration with the student's advisor	6
Total Credits	30

The 4+1 M.S. in Environmental Earth Sciences prepares students for a career as an Environmental Professional/Professional Geoscientist. Courses cover the fundamentals of how the earth works from physical, chemical and biologic perspectives and provide program participants with a unique set of skills to address the environmental, water, and climate challenges of the 21st century. Students complete 30 credits. Up to 12 credits of the required graduate coursework at the 5000 level or higher may be used toward both the undergraduate and M.S. plans of study and students are expected to take between nine and 12 credits of required courses while they are undergraduates. However, courses taken at the 3000-4000 level that are counted on a graduate plan of study cannot also be counted toward an undergraduate degree. Only six credits of 3000 or 4000 level coursework may count toward the M.S.

Requirements

Course	Title	Credits
Required Courses		
ERTH 4150/5150	Applied Data Analysis in Earth Science	3
ERTH 6000	Seminar in Earth Sciences	3
Track Courses		
<i>Group A: Data Acquisition and Analysis</i>		
Select two of the following:		6
ERTH 3030	Earth Structure	
ERTH 3710	Engineering and Environmental Geology	
ERTH 5230/4230	Advanced GIS for Remote Sensing for Geoscience Applications	
ERTH 5240/4240	Watersheds and Environmental Change	
ERTH 5430/4430	Stable Isotope Biogeochemistry	
ERTH 5440/4440	Dates and Rates in Earth and Environmental Science	
ERTH 5710/4710		
ERTH 5810/4810	Modeling the Changing Atmosphere and Ocean	
<i>Group B: Water, Climate and the Environment</i>		
Select two of the following:		6
ERTH 3020	Earth Surface Processes	
ERTH 3230	Beaches and Coasts	
ERTH 4735	Introduction to Ground Water Hydrology	
ERTH 5130/4130	Geomicrobiology	
ERTH 5210/4210	Glacial Processes and Materials	
ERTH 5720/4720		
ERTH 5740/4740	Energy Resources: Past, Present, and Future	
ERTH 5850/4850	Paleoclimatology	
Additional Track Courses		
Select two courses from either group A or B chosen with the student's advisor		6
Electives		