REMOTE SENSING OF ENVIRONMENTAL CHANGE MINOR

Geographical Sciences (GEOG)
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The Remote Sensing of Environmental Change minor program (RSEC) is designed to build students' understanding global environmental change in order to assess their impacts on the physical and human landscapes, and to use remote sensing as an analytical tool for identifying the impacts. Students in the minor program will receive technical training in remote sensing to examine how extreme environmental events shape human society and ecosystems from the interdisciplinary perspective afforded by the field of geography.

Admission to the Program

There are no special requirements for the minor program in Remote Sensing of Environmental Change. The Department of Geographical Sciences welcomes students from every area of study. GIS and ENSP students are also welcome to enroll in this minor.

Program Learning Outcomes

1. Students will demonstrate the ability to use remotely sensed imagery to examine how the Remote Sensing of Environmental Change shapes human society and ecosystems.
2. Students will demonstrate awareness and understanding of multi-scale Remote Sensing of Environmental Change resulting from social and environmental processes.
3. Students will demonstrate an awareness of the human and physical dimensions of the upheaval that Environmental Changes are causing.
4. Students will have a concrete global perspective on human and environmental systems.

REQUIREMENTS

- All credits for the minor must be taken in the Department of Geographical Sciences at the University of Maryland, College Park.
- All courses must be completed with a grade of "C-" or better.
- No more than **six credits** are to be included in the minor and student's major, supporting courses, and college requirements.

Course	Title	Credits
Foundation Course (choose one)		**3**
GEOG156	How NASA Sees the Earth	
GEOG170	Mapping our Digital World	
GEOG172	Earth From Space	
GEOG201	Geography of Environmental Systems	
Core Course		
GEOG272	Introduction to Earth Observation Science	3
Advanced Technical Courses (choose three advanced technical courses)		**9**
GEOG371	Programming for Image Analysis	
GEOG417	Land Cover Characterization Using Multi-Spectral Remotely Sensed Data Sets	
GEOG418	Field and Laboratory Techniques in Environmental Science	
GEOG440	Polar Remote Sensing	
GEOG461	Machine Learning for Computational Earth Observation Science (CEOS)	
GEOG471	Technologies for Computational Earth Observations	
GEOG472	Remote Sensing: Digital Processing and Analysis	
Total Credits		**15**