



Department of Geography

COLLEGE OF SOCIAL AND BEHAVIORAL SCIENCE
THE UNIVERSITY OF UTAH

REMOTE SENSING OF THE ENVIRONMENT EMPHASIS

Remote sensing relies on measurements of electromagnetic radiation to monitor the earth and its environmental systems using satellites, aircraft, sensor networks and Unmanned Aerial Vehicles (UAV's). This emphasis allows students to get in-depth knowledge on how remote sensing data are collected, processed, and used for a multitude of applications. Remote sensing skills are increasingly sought after in a variety of disciplines, and by many employers in environmental and intelligence fields.

TM

REQUIRED CLASSES

Geography core requirements

GEOG 1000 Earth Environments and Global Change (SF)

GEOG 1005 Earth Environments Lab

GEOG 1400 Human Geography (BF)

GEOG 3020 Geographical Analysis (QB,QI)

GEOG 3100 Introduction to GIS and Cartography (QI)

One of the following: (Upper division Physical Geography choice list)

GEOG 3200 Geomorphology: Mountains, Rivers, Deserts

GEOG 3/5205 Climate Change Foundations

GEOG 3/5210 Global Climate Change (SF)

GEOG 3/5215 Climate Change Impacts, Adaptation & Mitigation

GEOG 3/5290 Water in Utah (AS)

GEOG 3310 Introduction to Natural Hazards (SF)

One of the following: (Upper division Human Geography choice list)

GEOG 3/5090 Medical Geography

GEOG 3350 Resource Conservation & Environ. Management (BF)

GEOG 3420 Political Geography

GEOG 3/5440 Global Economic Geography

GEOG 3620 North America : Geography, Diversity, and Change (DV)

One for the following: (Geography CW choice list)

GEOG 3/5270 Biogeography: Global Patterns of Life (CW)

GEOG 3/5400 Population Geography (CW)

EMPHASIS REQUIREMENTS

Emphasis core requirements

GEOG 3110 Introduction to Remote Sensing

GEOG 3170 Geospatial Field Methods: GPS and Drones

GEOG 5110 Environmental Analysis Through Remote Sensing

GEOG 5120 Advanced Optical Remote Sensing **OR**

GEOG 5130 Advanced Active Remote Sensing

GEOG 5131 Capstone in Remote Sensing **OR**

GEOG 5940 Internship in Remote Sensing



CAREER OUTLOOK

US Forest Service

Bureau of Land Management

Environmental organizations

Organizations and agencies focused on agriculture and food security

NASA

National Geospatial Intelligence Agency

Department of Defense

SCHOLARSHIPS

Thanks to the generous donations given by industry & alumni, The Geography department offers several scholarships to incoming and continuing students.

To apply, please visit:

<https://geog.utah.edu/undergraduate/scholarships.html>

CONTACT INFORMATION

For more information about the Geography department or to contact an Academic Advisor, please visit: geog.utah.edu



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STEM Education