The courses in the GIS Certificate Program can either be taken at the undergraduate or graduate level.

To pursue the undergraduate-level GIS certificate students must be currently enrolled at the University of Alabama or another four-year college or university or have two years of work experience in a field that deals with geographic information, such as geography, natural resources and land-use management, environmental analysis, regional and environmental planning, civil engineering, or business applications.

The requirement for the graduate-level GIS certificate is a bachelor degree in one of the above fields.

Faculty


Sagy Cohen, Ph.D., University of Newcastle, 2010. Assistant Professor: GIS, Remote Sensing.

W. Craig Remington, M.S., Florida State, 1981. Adjunct Professor and Director of Cartographic Research Lab: GIS, cartography.


For more information contact:

Joe Weber
Department of Geography
202 Farrah Hall
Tuscaloosa, AL 35487
(205) 348-0086
Jweber2@ua.edu
http://geography.ua.edu/

THE UNIVERSITY OF ALABAMA
The objectives of the certificate in GIS are to provide participants with a concentrated geography background focusing on geographic information techniques, to prepare participants with technical skills in using GIS, and to qualify participants for applications of GIS in various areas.

**Required courses (12 hours):**
- GY 330 Computer Mapping and Graphics…4 hours
- GY 420/520 Remote Sensing I…………..4 hours
- GY 430/530 Introduction to GIS…………..4 hours

**Electives (8 hours):**
- GY 433/576 GIS Practicum…………………4 hours
- GY 432/532 GIS Programing……………..4 hours
- GY 431 GIS in Emergency Management……4 hours
- GY 442 GIS in Biogeography………………4 hours
- GY 435/535 Remote Sensing II……………4 hours
- GY 436/536 Advanced GIS………………..4 hours
- GY 437/537 GIS for Transportation………..4 hours
- GY 438/538 Applications of GIS…………..4 hours

Prerequisites or permission to register may apply.

**Facilities and Resources:**
The GIS and Remote Sensing Laboratory is a state-of-the-art facility with all major GIS and remote sensing software packages, such as ArcGIS and ERDAS Imagine. The lab serves students and faculty in both their coursework and research.

The Cartographic Research Laboratory was established in 1982. It is a self-supporting, non-profit facility, receiving funding through the sale of publications and through the completion of cartographic and GIS projects for a broad clientele.

The Map Library is a regional depository for the USGS and DMA and includes over 250,000 maps and 70,000 aerial photographs.

The Surface Dynamics Modeling Lab (SDML) was established in 2012 as a research unit within the Department of Geography. SDML strives to improve scientific understanding of planetary surface processes and dynamics through design and utilization of state-of-the-art numerical models coupled with field and laboratory research methods.

**“Knowing where things are, and why, is essential to rational decision making.”**
- Jack Dangermond, Environmental Systems Research Institute (ESRI)