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.

Luoheng Han, Ph.D., Nebraska, 1994. Professor and Associate Dean. Dr. Han is interested in remote sensing of water quality and GIS applications.

W. Craig Remington, M.S., Florida State, 1981. Adjunct Professor and Director of Cartographic Research Lab. He oversees a wide range of GIS projects as the Director of the Cartographic Research Laboratory.

Linda Watson, M.S., Alabama, 2006. Instructor and Director of the Placenames Research Center. She is one of the few full-time place names researchers in the country and oversees the updating of the USGS Geographic Names Information System Database.

Joe Weber, Ph.D., Ohio State, 2001. Associate Professor and Director of the Center for Land Information Analysis and Mapping. He is interested in using GIS to model people's accessibility and mobility within cities.

For more information contact:

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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 435/535 Remote Sensing II………………4 hours
- GY 436/536 Advanced GIS…………………..4 hours
- GY 438/538 Applications of GIS……………..4 hours

Prerequisites or permission to register may apply. All certificate students should discuss their course schedules with Dr. Weber before registering for courses.

**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 Placenames Research Center is one of two nationally recognized research facilities for toponymic study. Placenames Center personnel conduct research that is included in the USGS Geographic Names Information System (GNIS) database, one of the largest geospatial databases for the country.

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

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