The Graduate Certificate in Geographic Information Systems provides students with an interdisciplinary background in GIS. The program consists primarily of graduate level courses in Geographic Information Systems with electives in related disciplines such as Biology, Civil Engineering, Environmental Studies, Geography, Geoscience, International Relations, Landscape Architecture, Sociology, Public Health, and Urban Planning.

A Geographic Information System (GIS) is a set of computer hardware and software used to organize, manipulate, and analyze maps and spatial data. GIS is a rapidly developing technology that can be applied to many areas of the natural and social sciences. Applications areas include: Architecture, Engineering, Earth and Environmental Sciences, Economics, Sociology, Political Science, Public Health, and Urban Planning.

There is an increasing demand for GIS specialists in the job market as a result of advancements in information technology, and the development of spatial/geographic database management programs. Currently, many faculty at FIU in a variety of disciplines are actively engaged in teaching and research in GIS.

For more information, contact the Program Director, Dean Whitman: phone: (305) 348-3089; email: whitmand@fiu.edu, or visit the GIS Center website: http://gislab.fiu.edu

Prescribed Courses and Other Requirements

The certificate program will require 15 graduate level credits (5 courses) distributed as follows:

Required Courses: (One course from each of the following 3 categories)

1. Introduction to GIS
   - GIS 5050 Environmental GIS
   - CGN 5320 GIS Applications for Civil and Environmental Engineering
   - PAD 6717 GIS Applications for Urban Management or equivalent

2. Intermediate/Advanced GIS
   - GLY 5758 GIS and Spatial Analysis for Earth Sciences
   - EVR 5044 Advanced GIS and Environmental Data Analysis
   - CGN 6325 Advanced GIS for Civil and Environmental Engineering
   - SYA 6356 GIS and Social Research or equivalent

3. Remote Sensing
   - GLY 5754 Applied Remote Sensing in Earth Sciences
   - GIS 5038 Remote Sensing or equivalent

Electives: (6 credits out of the following)
   - EVR 7329 Watershed Analysis and Management
   - EVR 7056 GIS Water Resources
   - PCB 5328 Spatial Ecology
   - EVR 6268 Remote Sensing in Hydrology
   - GIS 5935 Topics in GIS or
Additional intermediate/advanced GIS courses under Category 2 Required Courses,

or

Other GIS-related courses approved by the Program Director in consultation with the Coordinating Committee.