

UNDERGRADUATE CERTIFICATE:

APPLIED GEOGRAPHIC INFORMATION SYSTEMS

(IN PERSON OR FULLY ONLINE)

The Applied Geographic Information Systems undergraduate certificate prepares students to perform various GIS skills, data collection, and data analysis methods. The certificate program focuses on practical applications of qualitative and quantitative research methods. These prepare students (1) to continue their education into graduate/professional school and/or (2) for jobs that require knowledge and use of statistics, surveys, GIS, and other research methods. This certificate program is open to degree-seeking students only.

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 natural sciences, social sciences, engineering, and planning areas.

For more information, contact the Program Director, Dr. Genevieve Reid.
email: greid@fiu.edu

ADMISSION REQUIREMENTS

Applicants must currently be enrolled in an Undergraduate Degree program at FIU.

Note: Some of the programs' courses have prerequisites. Students must satisfy these prerequisites or get permission from the instructor.

HOW TO APPLY

Students may apply by contacting the Program Director, Dr. Genevieve Reid, via email (greid@fiu.edu) to schedule a brief introduction meeting and start the registration process.

Applications will only be considered for the Fall and Spring Terms (no Summer applications, please).

PRESCRIBED COURSES AND OTHER REQUIREMENTS

The certificate program will require 18 undergraduate-level credit hours (**6 courses**) distributed as follows:

REQUIRED COURSES:

A. Introduction to GIS (Select two courses in this category)

Students entering the certificate program are required to complete any two(2) (6 credits) of the following courses:

GIS 2000 Mapping in Geography

GIS 2040 Introduction to Applied Skills in GIS

GIS 3043 Introduction to Geographical Information Systems

B. Core Requirements Category 1: Intermediate/Advanced GIS (Select two courses in this category)

CCJ 4072 GIS and Crime Mapping

GIS 3048 Applications of Geographic Information Systems

SYA 4352 GIS and Social Research

C. Core Requirements Category 2: Methods (Select one course in this category)

CCJ 4700 Research Methods and Analysis

CCJ 4701 Measurement and Analysis in Criminal Justice

GEO 3110 Research Methods

SYA 3300 Research Methods

SYA 4450 Advanced Research Methods

PAD 4732 Applied Research Methods

PAD 4712 IT and E-Government

D. Electives (Select one course in this category)

CGN 4321 GIS Applications in Civil and Environmental Engineering

GLY 3759 Visualizing Our World with GIS

SYA 3400 Introduction to Quantitative Social Research

PCB 4932 Topic in Ecology: Introduction to Landscape Ecology with GIS

Or

One (1) additional course under Core Requirements Category 1 or 2.

Or

Another GIS-related course that the Program Director approves.

COORDINATING COMMITTEE

PROGRAM DIRECTOR

Dr. Genevieve Reid, *Global and Sociocultural Studies*, greid@fiu.edu

COORDINATING COMMITTEE MEMBERS

Derrick Scott, *Global and Sociocultural Studies*

Katherine Lineberger, *Global and Sociocultural Studies*

Ebru Ozer, *Landscape Architecture, Environmental and Urban Design*

Shimon Wdowinski, *Earth and Environment*

Sparkle Malone, *Biology*

Stephen Pires, *Criminology and Criminal Justice*

Jennifer Fu, *GIS Center*

CERTIFICATE OF COMPLETION

The student enrolled in the certificate will receive their certificate of completion upon finishing their degree and graduating.