Applied Geographic Information Systems

Program Director:
Derrick Scott, *Global and Sociocultural Studies*

Coordinating Committee:
Katherine Lineberger, *Global and Sociocultural Studies*
Genevieve Reid, *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*

The certificate in Applied Geographic Information Systems prepares students to perform a wide array of 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 statistical, survey, GIS, and other research methods. This certificate program is open to degree-seeking students only.

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

Core Requirements:
Two (2) courses from category 1 and one (1) course from category 2 for a total of nine (9) credits:

Category 1: Intermediate/Advanced: GIS (Select 2 courses from this list)

CCJ 4072	GIS and Crime Mapping
GIS 3048	Applications of Geographic Information Systems
SYA 4352	GIS and Social Research

Category 2: Methods: (Select one course from this list)

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

Electives:
One (1) course from those listed below for a total of three (3) credit hours.

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 Category 1 or 2 of the required courses.

Or

Another GIS-related course approved by the Program Director

18 Credit Hours