Applied Geographic Information Systems

Program Director:
Derrick Scott, Global and Sociocultural Studies

Coordinating Committee:
Katherine Lineberger, Global and Sociocultural Studies
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Shimon Wdowinski, Earth and Environment
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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