



GIS Certificate Program

A Program of the Joint Center for GIS and Spatial Analysis (GISSA)

Guidelines during the quarter to semester transitional years

Program Description

The GIS Certificate Program is designed to meet the needs of both the novice, and experienced GIS professionals. Students who graduate from this program will have a solid understanding of the theoretical basis of GIS and rich hands-on experience with GIS software packages.

Learning Outcomes

Apply and demonstrate the principles of geographic information science
Formulate requirements and constraints in spatial analysis
Complete spatial analysis with selected GIS software packages
Develop skills for designing and implementing real-world GIS applications
Gain hands-on experience with popular GIS software such as ArcGIS
Learn how to communicate effectively via mapping and graphic presentation

Application

The GIS Certificate Program is open to both matriculated and non-matriculated students at the University of Cincinnati. Students can start the program in any semester. The deadline for application is two years after completion of all required courses. However, students are strongly encouraged to contact an advisor and apply early in the process.

Requirements

To obtain a GIS certificate, a student must complete 4 required courses specified below, with a minimum grade of C in each course. The certificate will be awarded upon application and satisfactory completion of the required courses.

- (1) Remote Sensing and Cartography group (Select 1, Pre-requisite: None)
 - GEOG6072 Principles and Applications of GPS
 - GEOG6074 Computer Analytical Cartography
 - GEOG6076 Principles of Remote Sensing
- (2) Introduction to GIS group (Select 1, Pre-requisite: None)
 - PLAN2054 Introduction to Geographic Information Systems
 - PLAN6071 Introduction to Geographic Information Systems
 - GEOG6071 Introduction to Geographic Information Sciences
- (3) GIS Applications Group (Select 2)
 - PLAN6091 GIS Project Formulation and Management, Pre-requisite: any 1 course under (2)
 - GEOG6081 Intermediate GIS, Pre-requisite: any 1 course under (2)
 - GEOG6091 Advanced GIS & Web GIS, Pre-requisite: any 1 course under (2)
 - GEOG6021 Crime Mapping and Analysis, Pre-requisite: any 1 course under (2)
 - GEOG6031 GIS and Public Health, Pre-requisite: any 1 course under (2)
 - GEOG6089 Digital Terrain and Watershed Analysis, Pre-requisite: any 1 course under (2)
 - GEOG6087 Hyperspectral/Thermal Remote Sensing, Pre-requisite: GEOG6076
 - GEOG6096 Advanced Remote Sensing and Image Analysis, Pre-requisite: any 1 course under (1)
 - GEOG6099 Exploratory Visual Analytics, Pre-requisite: any 1 course under (2)
 - GEOG7091 Seminar: GIS, Pre-requisite: any 1 course under (2)

Lower level courses may be replaced by upper level courses upon approval of the advisor. One of the required courses may be substituted by a similar course taken outside the program. A written petition must be submitted to Prof. Liu or Prof. Wang for such substitution, and it must include well-reasoned justifications, including a thorough comparison of content coverage between the two courses, with the syllabi attached. The petition will be considered on a case-by-case basis.

Advisors

Lin Liu	Geography, Braunstein Hall 400E	556-3429	lin.liu@uc.edu
Xinhao Wang	Planning, DAAP Building 6217	556-0479	xinhao.wang@uc.edu

Costs

The cost of courses in this program is in accordance with the university's general tuition rate. Please visit www.uc.edu for the current tuition rate.



GIS Certificate Program Application Form

A Program of the Joint Center for GIS and Spatial Analysis (GISSA)

STUDENT NAME _____

UC-ID (M#) _____

DATE _____

Department/College _____

Program _____

Mailing address: _____

Telephone: _____

Email: _____

Course name	Grade	Quarter/Year
(1) Remote Sensing & Cartography Group (Semester)		
<input type="checkbox"/> Geography 6072 Principles and Applications of GPS		
<input type="checkbox"/> Geography 6074 Computer Analytical Cartography		
<input type="checkbox"/> Geography 6076 Principles of Remote Sensing		
(2) Introduction to GIS group (Semester)		
<input type="checkbox"/> Geography 6071: Introduction to Geographic Information Sciences		
<input type="checkbox"/> Planning 6071 Introduction to Geographic Information Systems		
<input type="checkbox"/> Planning 2054 Introduction to Geographic Information Systems		
(3) GIS Applications Group (Semester)		
<input type="checkbox"/> Planning 6091 GIS Project Formulation and Management		
<input type="checkbox"/> Geography 6021 Crime Mapping and Analysis		
<input type="checkbox"/> Geography 6031 GIS and Public Health		
<input type="checkbox"/> Geography 6081 Intermediate GIS		
<input type="checkbox"/> Geography 6087 Hyperspectral/Thermal RS		
<input type="checkbox"/> Geography 6089 Digital Terrain and Watershed Analysis		
<input type="checkbox"/> Geography 6091 Advanced GIS & Web GIS		
<input type="checkbox"/> Geography 6096 Advanced RS & Image Analysis		
<input type="checkbox"/> Geography 6099 Exploratory Visual Analytics		
<input type="checkbox"/> Geography 7091 Seminar: GIS		

Transcripts attached.

Submit the application form and transcript to:

Rosa Smith
 6210 DAAP Building
 PO Box 210016
 Cincinnati, OH 45221-0016
 Rosa.smith@uc.edu
 phone: 513-556-4943
 fax: 513-556-1274

Official use only	
Application received on: _____	
Transcripts received on: _____	
Approved by: _____	Date: _____
Certificate issued on: _____	