

GEOGRAPHIC INFORMATION SYSTEMS (GIS) TECHNOLOGY, CERTIFICATE

Program Code: CC.GIS

This certificate offers instruction in GIS software, geography, data analysis, cartography, remote sensing, data collection, database theory, and programming.

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- business
- emergency management
- health sciences
- transportation
- urban planning
- unmanned aerial systems
- natural resource management

Outcomes

Program Outcomes

Upon successful completion of this program, students should be able to:

- apply geographic knowledge and GIS software techniques to create high quality analysis, data, applications, and maps;
- design and create geodatabases;
- automate geoprocessing tools to manipulate, generate, display, and analyze GIS data;
- analyze and interpret remotely sensed data including aerial and satellite imagery, LIDAR and GPS data;
- apply programming skills to create and customize applications and tools.

Requirements

Course	Title	Credits
First Term		
GIS-101	Principles of Geospatial Technology	2
GIS-201	Introduction to Geographic Information Systems	3
Credits		5
Second Term		
GIS-202	Intermediate Geographic Information Systems	3
GIS-205	Cartography and Map Making	3
GIS-236	Introduction to Programming for GIS	3
Credits		9
Third Term		
GIS-232	Data Collection & Application	2
GIS-286	Remote Sensing	3
Credits		5
Total Credits		19

Careers

Career opportunities include:

- GIS technician
- GIS analyst
- mapping technician
- and survey and remote sensing technician