

# GEOSPATIAL INFORMATION ANALYSIS CERTIFICATE

Geospatial Information Analysis is used increasingly in both research and practice with job opportunities expected to grow 29% from 2014 to 2024.

## About this Program

- **College:** Liberal Arts and Sciences (<http://catalog.ufl.edu/UGRD/colleges-schools/UGLAS/>)
- **Credits:** 11-12 | Completed with minimum average grade of 2.67
- **Contact:** Email ([liangmao@ufl.edu](mailto:liangmao@ufl.edu)) | 352.294.7516

*Certificates must contain at least nine credits of coursework that are unique to that program out of all other certificates and minors.*

## Department Information

The Geography Department offers a range of topics in contemporary geography and geospatial science, rich and lively cultural and learning environments, B.A. and B.S. undergraduate degrees, M.A., M.S., and PhD degrees, as well as the largest Medical Geography program in the United States.

**Website** (<https://geog.ufl.edu/>)

### CONTACT

Email ([liangmao@ufl.edu](mailto:liangmao@ufl.edu)) | 352.392.0494 (tel) | 352.392.8855 (fax)

P.O. Box 117315  
330 Newell Drive  
3141 TURLINGTON HALL  
GAINESVILLE FL 32611-7315  
Map (<http://campusmap.ufl.edu/#/index/0267>)

### Curriculum

- Combination Degrees
- Geographic Artificial Intelligence and Big Data Certificate
- Geography
- Geography Minor
- Geography Minor UF Online
- Geography UF Online
- Geospatial Information Analysis Certificate
- Medical Geography Certificate
- Medical Geography in Global Health Minor
- Meteorology and Climatology Certificate

Covers a variety of geospatial technologies and analytical methods such as digital mapping, geographic information system (GIS), and remotely sensed image processing, aiming to develop spatial thinking ability for students. Lab-based applications emphasize hands-on experiences of these technologies.

Open to all currently enrolled undergraduate students. At least nine credits of coursework must be unique to the Geospatial Information Analysis certificate out of all other certificates and minors.

## Required Courses

| Code                           | Title  | Credits      |
|--------------------------------|--|--------------|
| GIS 3043                       | Foundations of Geographic Information Systems <sup>1</sup> | 4            |
| GIS 4037                       | Digital Image Processing <sup>2</sup>                      | 4            |
| Approved elective <sup>3</sup> |  | 3-4          |
| <b>Total Credits</b>           |  | <b>11-12</b> |

<sup>1</sup> Spring, Year 1; junior standing or higher.

<sup>2</sup> Fall, Year 1; junior standing or higher.

<sup>3</sup> Spring or Fall, Year 2; junior standing or higher.

## Approved Electives

Other GIS courses may be substituted with approval of the certificate coordinator

| Code      | Title                                       | Credits |
|-----------|---|---------|
| GIS 3001C | Spatial Maps and Graphs                     | 4       |
| GIS 4021C | Aerial Photo Interpretation                 | 3       |
| GIS 4102C | GIS Programming                             | 3       |
| GIS 4113  | Introduction to Spatial Networks            | 3       |
| GIS 4115  | Applied Geostats                            | 3       |
| GIS 4324  | GIS Analysis of Hazard Vulnerability        | 3       |
| GIS 4500  | Population GIS                              | 3       |
| GIS 4911  | Undergraduate Research in Geospatial Trends | 0-3     |

---