GEOGRAPHIC INFORMATION SYSTEMS MINOR

Contact

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Minor Description

Geospatial Technology is a growing field, involving geographic information systems (GIS), global navigational satellite systems (GNSS/GPS), unoccupied ariel vehicles (UAV/drone), remote sensing, and more. In the GIS minor you learn about these tools and get hands-on experience using them in an internship and/or research. GIS has applications related to health care, ecology and conservation, marine science, engineering, business, urban planning, sociology, politics and more. A GIS minor gives you practical skills that current employers are seeking and will significantly enhance your ability to gain employment because you become competent in skills that have application to dynamic fields. With GIS, you can track the spread of disease, find optimal sites to locate a new business, map endangered plant and animal habitat, find the best site for solar panels, analyze growth patterns of cities, and so much more.

Admissions

See Undergraduate Admissions (https://catalog.une.edu/undergraduate/admissions/) for more information.

Transfer Credit

See Undergraduate Admissions (https://catalog.une.edu/undergraduate/admissions/) for more information.

Financial Information

Tuition and fees for subsequent years may vary. Other expenses include books and housing. For more tuition and fee information, please consult this catalog's Financial Information (https://catalog.une.edu/undergraduate/financial-information-undergraduate-programs/) section.

Curricular Requirements

Any student may minor in Geographic Information Systems with the approval of the Director of the School of Marine and Environmental Programs. A minimum of eighteen hours of approved course credit in the following courses is required:

Code	Title	Hours
Program Required Courses		
GIS 161	GIS I: Fundamentals of Geospatial Science and Technology	3
GIS 210	GIS 2: Applications of GIS	3
GIS 495	GIS Internship (Three credits minimum) [1]	3-4
or GIS 410	GIS Research	
Eight credits minimum of Advanced Courses (see below) [1]		8-9
Total Hours		**17-19**

[1] Advanced courses and research/internship courses must total twelve credits between the two areas.

Advanced Courses

Code	Title	Hours
GIS 324 & 324L	Remote Sensing and Remote Sensing Lab	4
GIS 398	Special Topics (without Lab)	3
GIS 399 & 399L	Special Topics (with Lab) and Special Topics Lab	4

Please note: While some courses can fulfill both core and program requirements, the credits earned do not count twice towards the minimum total required credits for the degree.

Learning Outcomes

- Apply GIS analysis to address geospatial problems and/or research Gerontology Minor questions.
- Effectively communicate and present project results in oral, written, and graphic forms.
- Demonstrate an ability to undertake new analyses, troubleshoot, and seek help to solve problems in GIS.
- Demonstrate technological competence in modern GIS technology.