GEOSPATIAL TECHNOLOGY, ASSOCIATE

Program Description

Completion of this program will provide students with a credential that is in high demand in many different disciplines/industries. The program provides a well-rounded suite of skills including: field-based primary data collection using a variety of survey and global positioning devices; hands-on experience with a variety of geographic information systems including ESRI's suite of tools; the basics of geospatial analysis; and advanced skill development in interpretation of remote sensing data and aerial photographs, spatial statistics, and geospatial programming. Students may pursue this program in the context of their major by completing discipline specific projects in the GIS courses and a required minor.

Program Learning Outcomes

Students completing Associates Degree in Geospatial Technology will be able to:

- Collect primary data in the field using ground-based and remote sensing methods, and compile and integrate secondary data for spatial analysis.
- Manage spatial data from various sources utilizing tools, models, and programming code to develop spatial analysis workflows in the investigation of real-world problems.
- Utilize state of the art geospatial tools to perform spatial analyses and visualizations that effectively, concisely, and ethically represent geospatial data.
- Map natural and human-induced spatial processes and interpret statistically driven cause-and-effect relationships to complete individual and collaborative geospatial projects.
- Effectively communicate methodologies and outcomes of data and literature-based geospatial projects through oral, written, and graphic media.

Degree Requirements

Code	Title	Hours
EVRN 131	Introduction to GIS and GPS	3
EVRN 225	Intermediate GIS	3
EVRN 325	Geospatial Analysis	3
EVRN 355	GIS Programming & Applications	4
EVRN 365	App Geospatial Technologies	4
EVRN 445	Remote Sensing & Spatial Stats	4
CSCI 105	Intro to Computer Programming	3
Select one of the following:		1-4
NRES 284	Principles Forest Conservation	
EVRN 211	Field Data Methods	
GEOL 308	Structural Geology Systems	
RECS 365	Expedition Management	
Select one of the following:		3
BIOL 280	Biostatistics	
BUSN 211	Business Statistics	
MATH 207	Prin of Statistical Methods	
PSYC 210	Statistics	

Free Electives	
Total Hours	**28-31**

Complete one of the following Minors:

- Biology
- Computer Science
- Environmental Policy
- Environmental Science
- General Business
- Geography
- Geology
- Homeland Security
- International Business
- Marketing
- Marine & Freshwater Science
- Political Science
- Public Administration
- Sociology

Other minors approved by student's Geospatial Technology advisor.

General Education: All LSSU Associate's degree candidates must complete the LSSU General Education Requirements.

A minimum of 62 credits (at the 100 level or higher) must be earned for graduation with a cumulative gpa of 2.00 or higher. A gpa of 2.00 or higher is also required in your Major, as well as in your General Education Requirements.