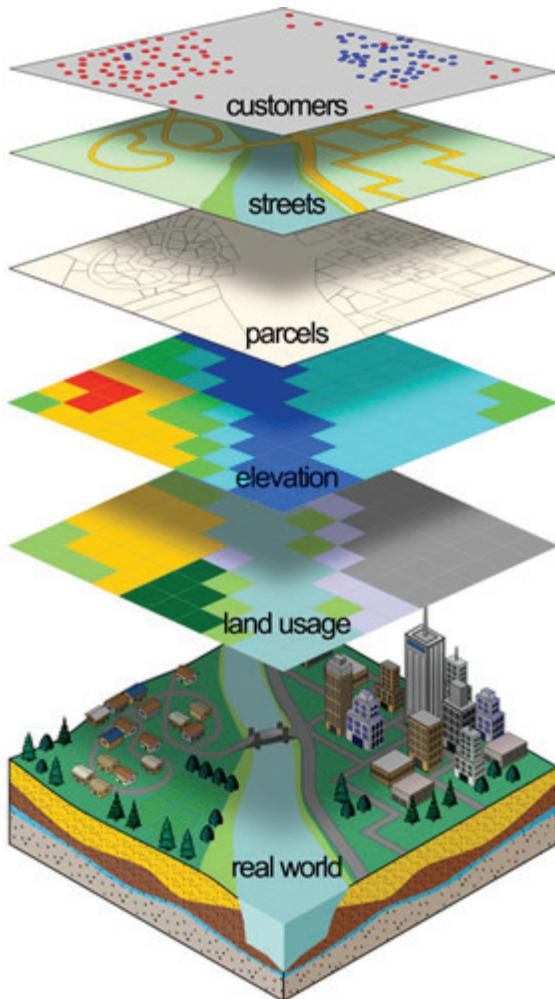


GIS CERTIFICATE

Geographic Information Systems



What is GIS?

GIS stands for Geographic Information Systems. You may be surprised to know that you interact with GIS when you use Google Maps to find local restaurants or use Friend Finder to track down your siblings or friends. Much of the information we collect and study as a society, professionals, businesses, or individuals is tied to locations. Using GIS software, we are able to visualize various types of information and explore spatial relationships by creating maps, charts, and tables that can be easily understood and allow the user to make informed decisions.

What kind of work can I do with a GIS Certificate?

The US Department of Labor has identified GIS as one of the three fastest growing career fields in the country, and these skills are needed in a number of job fields. Engineering, computer sciences, business, natural resources, telecommunications, homeland security and geology are just a few examples of areas that are in need of GIS professionals.

With a GIS certificate you could be paid to:

- Determine the most profitable location for a new business based on traffic, real estate, demographics and the flow of people.
- Monitor the prevalence and spread of infectious disease and other environmental conditions.
- Use demographic data to determine factors affecting crime rates in a particular area.
- Analyze elk and deer migrations for the construction of a proposed highway.
- Evaluate building locations for geologic hazards such as landslides, flooding and active faults.

You can complete a GIS certificate with just 16 credits in addition to your major program, or as an independent certification.

GEO 1700 – Fundamentals of GPS and GIS navigation

This is an introductory course covering the basics of GIS software, using a GPS, and navigational skills. You will learn how to read and understand maps, collect data in the field and gain a solid foundation in GIS technology.

GEO 1800 – Introduction to GIS

Hands-on experience with current GIS software and technology can aid in a variety of career fields like engineering, geology, law enforcement, business and many others. This course gives a more in-depth approach to the software and skills used in these various careers.

GEO 1820 – Intermediate Geographic Information Systems

This is a data-driven course that involves data acquisition, creating databases and processing information for spatial analysis. This class gives you the opportunity to create real-world solutions using GIS.

GEO 2845 – Drone Operation/Safety Certification

Learn how to fly a drone for hire including proper FAA pilot licensing, flight planning and management. This class provides the opportunity to get time flying drones and building flight plans related to agriculture, natural resources, photography to produce video, orthomosaic maps, elevation maps, and generate data used with GIS.

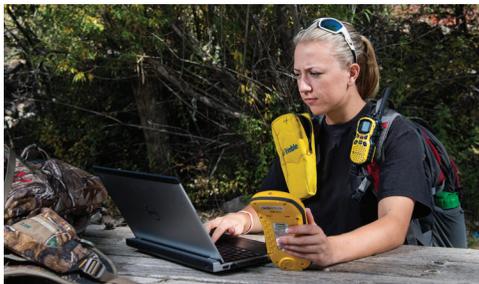
GEO 2850 – Cartography and Digital Map Making

Learn more about the art and science of creating visually pleasing, yet useful and effective maps using your GIS background from earlier courses.

GEO 2900 – Applied Geographic Information Systems

You choose the focus, you do the research, you interpret the data and you create the final imagery! This course is a semester-long, independent research project using all the of skills acquired in previous GIS courses, and is a perfect way to prepare for a career using this skills you have acquired.

All courses are available online.



GIS CERTIFICATE

READY TO

DISCOVER

MORE?

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