

GIS Careers

GIS is a key emerging and evolving industry, according to a U.S. Department of Labor 2003 report. The geospatial industry is a focus of president George W. Bush's High Growth Job Training Initiative.

GIS jobs range from part-time to full-time posts, and salary varies widely by region, nation, discipline, and experience. Salary.com reports the range in the United States as between \$31,387 for an entry-level analyst to \$83,333 for a GIS supervisor as of January 2006.

GIS professionals use GIS to visualize, analyze, and model systems to help in the planning and decision-making processes of their organizations. They make geographic information accessible to scientists, planners, decision makers, and the public.

GIS careers typically include positions such as

- Cartographic designer
- Computer programmer
- Database administrator
- Project manager
- System administrator

They also encompass business development, managerial, and administrative roles.

At the level of basic science, GIS professionals are improving understanding of how the planet works at all scales. At the application level, GIS professionals are analyzing complex situations, visualizing problems, and creating geographic plans and solutions.

For more information,
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GIS

Geographic Information Systems



**Short-Term Technical Certificate
and
Practitioner's Certificate**

*offered by
LCCC's Social Sciences
and Human Services Division*



**Lorain County
Community College**

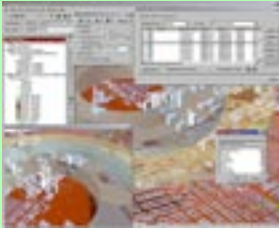
What is GIS?

GIS is a computer technology that uses a geographic information system as an analytic framework for managing and integrating data; solving a problem; or understanding a past, present, or future situation.

Why Geography?

Geography is a serious discipline with multi-billion dollar implications for businesses and governments. Choosing sites, targeting market segments, planning distribution networks, responding to emergencies, or redrawing country boundaries

– all of these problems involve questions of geography.



What Can You Do With GIS?

- Map where things are
- Map quantities
- Map densities
- Find what's happening inside a specific area
- Find what's nearby
- Map changes in an area to anticipate future conditions, decide on a course of action, or to evaluate the results of an action or policy.

The LCCC GIS Programs

Lorain County Community College's Social Sciences and Human Services Divisions offers two programs in Geographical Information Systems (GIS). These programs will begin in Fall 2006.

1. Short-Term Technical Certificate in GIS

This certificate will prepare students to work in GIS venues. The certificate provides practical hands-on experiences that can be transferred to the workplace. Entry into this certificate program requires basic computer literacy to be successful in the required courses and lab experiences.

Coursework for this certificate

Fall Semester

- Human Geography
- Introduction to Urban Studies
- Introduction to GIS
- Urban Spatial Systems
- College 101

13 Hours

Spring Semester

- Quantitative Methods
- Introduction to Cartography
- Report Writing
- Advanced GIS

12 Hours

2. GIS Practitioner's Certificate

This certificate will provide those who are actually working in the GIS field and who want to validate their experience with a certificate. This certificate includes 16 hours of credit courses.

Coursework for this certificate

- Introduction to GIS with Lab
- Introduction to Cartography
- Advanced GIS with Lab
- Urban Spatial Systems
- Report Writing for GIS

16 Hours

Credits from either of these certificates can be applied towards LCCC's associate's degrees in individualized study or technical studies.

