



Geography is information about the earth's surface and the objects found on it, as well as a framework for organizing knowledge. GIS is a technology that manages, analyzes, and disseminates geographic knowledge.

The intuitive power of maps reveals trends, patterns, and answers that are not as easily detected in other data presentation formats.



Lamar Institute of Technology

Computer Networking and
Troubleshooting Technology Program

CNTT is proud to announce a new GIS degree specialization, as well as a new certificate opportunity! Classes are available for credit and for non-credit.

Organizations around the world are leveraging their information technology (IT) investments by integrating mapping and **geographic information system (GIS)** technology.

GIS allows us to view, understand, question, interpret, and visualize data in ways simply not possible in the rows and columns of a spreadsheet. Beautiful and interesting maps provide better decision making tools and analysis and make a difference in our world.

For a variety of reasons — including the need to develop a modern mapping system to help protect the United States infrastructure and respond to crises following the September 11 attacks — geospatial technology (the educational discipline that includes **GIS**) is an emerging field that offers a bright future. In fact, according to the U.S. Bureau of Labor Statistics:

Geospatial technology is one of the ten occupational groups projected to have the fastest growth in employment through the year 2012!

Opportunities for employment exist in the private as well as public sector, and at every educational level.



Get a degree that works at LIT!

"The application of GIS is limited only by the imagination of those who use it."—Jack Dangermond, President of ESRI

For information regarding this new and exciting career opportunity, contact:

CNTT Program, 855 E Lavaca (or PO Box 10043), Beaumont, TX 77710

Tom Pinson: 409-880-2174 or Thomas.Pinson@lit.edu

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Geographic Information Systems

LAMAR INSTITUTE OF TECHNOLOGY
DEPARTMENT OF TECHNOLOGY
COMPUTER NETWORKING AND TROUBLESHOOTING TECHNOLOGY

Program of Study:

Geographic Information Systems Specialist

First Semester

| | | |
|------------------|--|-------------------|
| CPMT 1311 | Intro to Computer Maintenance | 3:2:4 (96) |
| CPMT 1345 | Computer Systems Maintenance | 3:2:4 (96) |
| CPMT 2333 | Computer Integration | 3:2:4 (96) |
| ITSE 1431 | Introduction to Visual Basic Programming | 4:3:2 (80) |
| HUMA 1315 | Arts and Society | 3:3:0 (48) |
| <i>DORI 0100</i> | <i>College Success Skills</i> | <u>1:1:1 (32)</u> |
| | | 16:12:14 |

Second Semester

| | | |
|-----------|---|-------------------|
| CPMT 1349 | Fundamentals of Networking | 3:2:4 (96) |
| CRTG 1311 | Introduction to Geographic Info Systems (GIS) | 3:2:2 (64) |
| CRTG 1301 | Cartography & Geography in GIS and GPS | 3:2:4 (96) |
| CRTG 1321 | Intro to Raster Based GIS | 3:2:2 (64) |
| ITSW 1307 | Introduction to Database | 3:3:0 (48) |
| MATH 1332 | College Math | <u>3:3:0 (48)</u> |
| | | 18:14:10 |

Third Semester

| | | |
|-----------|--|-------------------|
| ITCC 1302 | Cisco 1 | 3:2:4 (96) |
| ITCC 1306 | Cisco 2 | 3:2:4 (96) |
| CRTG 2320 | Intermediate Geographic Info Systems (GIS) | 3:2:2 (64) |
| CRTG 2335 | Programming for GIS | 3:2:2 (64) |
| SRVY 2309 | Computer Aided Mapping | 3:2:2 (64) |
| ENGL 1301 | English Composition | <u>3:3:0 (48)</u> |
| | | 18:14:14 |

Fourth Semester

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|-----------|--|------------------------------|
| ITSE 1445 | Intro to Oracle SQL | 4:3:2 (80) |
| CRTG 2301 | Data Acquisition & Analysis in GIS | 3:2:2 (64) |
| SOCI 1301 | Sociology | 3:3:0 (48) |
| SPCH 1311 | Fundamentals of Public Speaking | 3:3:0 (48) |
| SRVY 2305 | GIS Applications * and | 3:2:2 (64) |
| ENGL 1312 | Technical Report Writing | 3:3:0 (48) |
| OR | CRTG 2680 Cooperative Education – Cartography | <u>6:0:40 (640)</u> |
| | | 19:16:6 (total of 71) |

* Denotes capstone class