

Geographical Information Systems



Geographical Information Systems (GIS) Qualified Federal Financial Aid Program

Course	Title	Credits
BTE 100	Computer Keyboarding	1
CIS 118	Intro PC Applications	3
CIS 128	Windows Complete	3
CIS 165	Presentation Graphics: PowerPoint	3
CIS 240	Database Design and Development	3
CIS 287	Cooperative Education	1
CNG 105	Internet Technologies	3
ENG 113	Business English	3
GIS 101	Intro to Geographic Info Systems	3
GIS 110	Introduction to Cartography	3
GIS 210	Intermediate GIS	3
GIS 211	Spatial Data Modeling and Analysis	4
Total Program Credits		33

Estimated Program Cost	\$2,701.00
Estimated Materials Cost	\$900.00
Estimated Completion Time	8 months

Geographical Information Skills

Course	Title	Credits
CIS 145	Complete PC Database: Access	3
GIS 101	Intro to Geographic Info Systems	3
GIS 110	Introduction to Cartography	3
GIS 210	Intermediate GIS	3
GIS 211	Spatial Data Modeling and Analysis	4
Total Program Credits		16

Estimated Program Cost	\$1,312.00
Estimated Materials Cost	\$400.00
Estimated Completion Time	8 months

- Analyze spatial data within a GIS environment in government agencies, non-profit organizations, or businesses
- Maintain and manage a GIS laboratory
- Collect and input data into a GIS
- Create symbolized maps, tables, and graphs from a GIS
- Research changing wildlife habitat in national parks
- Model hurricane evacuation scenarios in a coastal city
- View global vegetation coverage from satellite
- Plan school bus routes based on student residences
- Study water consumption patterns in arid areas
- Design noise abatement buffer zones around airports



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720-423-4700

Register Today!

By Telephone 720-423-4702
In Person 2nd Floor Registration Desk
1250 Welton Street, Denver
Online www.emilygriffith.edu

Geographical Information Systems

Job Information

RELATED JOB TITLES

GIS Analyst
 GIS Specialist
 Analyst/Engineer
 Applications Developer
 Business/Real Estate
 CAD Analyst
 Cartographer
 Educator
 Forester
 Geographer
 Geologist
 Hydrologist
 Information Services Administrator
 Photogrammetry
 Programmer/Analyst
 Remote Sensing
 Researcher
 Resource Management
 Sales & Marketing
 Software Developer
 Systems Administrator
 Technical Support/Technician
 Technical Writer
 Transportation Planner
 Urban Planner

TRANSFERABLE JOB SKILLS

Knowledge of GIS technology (ArcView, ArcGIS, SQL, database, and spreadsheet software)
 ESRI product knowledge
 Programming skills using Visual Basic
 Practice in geographic concepts & demographics
 Ability to identify, analyze, and solve problems
 Ability to manage projects and work within deadlines both independently and as part of a team
 Working knowledge of Microsoft Office products
 Excellent presentation skills
 Customer service orientation experience using and/or managing SQL
 Experience using AutoCAD products

Estimated Salaries

(Based on Colorado Dept. of Labor Occupational Outlook Handbook)

<u>Job Titles</u>	<u>Hourly Pay</u>	<u>Annual Salary</u>
GIS Specialist		
Entry Level	\$22.50	\$46,800
Experienced	\$38.27	\$79,600

POTENTIAL EMPLOYERS

The following industries hire employees with GIS skills:

Business
 Banking & Insurance
 Media
 Real Estate
 Retail and Commercial Business
 Communications
 Location-Based Services
 Telecommunication
 Defense
 Defense and Intelligence
 Educators
 Universities and Community Colleges
 K-12, Primary, Middle, and Secondary
 Libraries and Museums
 Engineering
 Civil Engineering
 Surveying
 Government
 Federal, State, and Local
 Health and Human Services
 Homeland Security
 Law Enforcement and Criminal Justice
 Public Safety
 Sustainable Development & Humanitarian Affairs
 Urban and Regional Planning
 Natural Resource Industries
 Transportation
 Transportation Systems and Networks
 Logistics and Fleet Management
 Utilities
 Electric, Gas, Water/Wastewater

JOBS ONLINE

Go to the Emily Griffith Opportunity School web site at <http://careers.egos-school.com>
 Select "job links" for a listing of jobs available

REGISTRATION

See an advisor, at the 2nd Floor Registration area or call 720-423-4712 for an appointment.

FINANCIAL AID

Available through the Financial Aid Office.
 Call 720-423-4744 for information regarding the types of aid available for this course/program.