

Geospatial Computing: Certificate, Associates, Bachelor's Degrees

Complete the following to earn a Geospatial Technology Certificate

CIT 111 Intro to Databases		3
CS 101 Intro to Programming		2
MATH 221B Biostatistics	FDMAT 108 or FDMAT 108T	3
GEOL 340 Intro to GIS and Spatial Analysis		3
GEOL 341 Intro to Mobile GIS	GEOL 111 & GEOL 111L	1
GEOL 440R Applied GIS	GEOL 340	3

Employment ... GIS Technician

And complete one of these Certificates/Cluster to build towards an A.S. in General Studies or a B.S. in Geospatial Computing:

Networking Cluster (2502)		12
System Administration Certificate (C115)		15
CAD Certificate (C121)		15
Programming-CS Certificate (C118)		15
Database Certificate (C116)		12
CIT Certificate (C108)		15
Data Science Certificate (C124)		7

Employment ... GIS/Computing Technician

The above two certificates + 34 credits Foundations = An Employable A.S. in General Studies

Complete the above two and the following to earn a B.S. in Geospatial Computing

Class	Prerequisites	Credits
GEOL 100 Exploring Geology		1
GEOL 111 Physical Geology		3
GEOL 111L Physical Geology Lab		1
GEOL 112 Historical Geology	GEOL 111 & 111L	4
GEOL 316 Geowriting (or FDENG 301)	GEOL 351	3
GEOL 351 Earth Materials	GEOL 111 & 111L; Completed or currently enrolled in Geol 112 & Chem 105	3
GEOL 351L Earth Materials Lab	Currently enrolled in GEOL 351	1
CHEM 105 General Chemistry	Completed or currently enrolled in (Math 109, 112, or 119) or (FDMAT 110 or 112)	3
MATH 109 or FDMAT 112	Math 101 or appropriate ACT, SAT or ALEKS Math score (see catalog)	4
MATH/CS 335 Data Wrangling	MATH 221 & (CS 101 or CS 124)	3
GEOL 498R or IDS 398R Internship	GEOL 351	1
IDS 499 or GEOL 490R Capstone Project	GEOL 351	2
Choose one course: Geol 404, 425 or 435	varies	3

Strongly Recommended Course: (Taking this course will improve your skill set & potential marketability)

GEOG 240 Maps & Remote Sensing		3
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Employment ... GIS Analyst/Programmer

Set yourself apart with a Geology Background

Graduate School Preparation (M.S. in GIS)

Foundations: Complete Option C for Foundations of Science; Complete GEOL 316 rather than FDENG 301

Geospatial Computing as a Career:

This degree prepares students for employment as a computer programmer or GIS technician in many industries, including geoscience, or for graduate school in Geographic Information Systems (GIS). This degree is very employable. The advisor for this degree is Professor Mark Lovell.