You need to see a Counselor for specific recommendations about courses that will best meet your educational goals. Not all courses on the map are offered every term. Consult the Catalog and the Schedule of Classes for more details.

For information about transferring, see: https://www.dvc.edu/enrollment/transfer/index.html

For information on careers in this field see: https://www.dvc.edu/enrollment/career-employment/index.html

**Geography: Geographic Information Systems/Global Positioning System AS**

**PROGRAM LEARNING OUTCOMES**
1. Analyze the inter-disciplinary applications of GIS, GPS, and remote sensing.
2. Synthesize data from various sources and different formats for spatial analyses.
3. Apply spatial tools and techniques in a research or work environment.
4. Explain the fundamentals of the different geospatial technologies and how they function.

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**Entry**

**Required**
- GEOG 129: Field Data Acquisition and Management
- GEOG 125: Introduction to Geographic Information Systems
- GEOG 126: Advanced Geographic Information Systems
- GEOG 160: Introduction to Remote Sensing
- GEOG 162: Map Design and Visualization

**IGETC 5A**
- GEOG 120: Physical Geography
- GEOG 124: Thinking and Communicating Geospatially
- GEOG 126: Computer Aided Design and Drafting
- GEOG 129: Field Data Acquisition and Management

**IGETC 5B**
- BIOSC 126: Ecology and Field Biology
- BIOSC 170: Environmental Science
- GEOG 295: Work Experience
- IGETC 5A

**Take 6 units**
- COMSC 138: Advanced Microsoft Office
- COMSC 120: SQL Programming
- COMSC 172: UNIX & LINUX
- COMSC 101: Computer Literacy
- COMSC 110: Introduction to Programming
- COMSC 255: JAVA Programming

**Take 6 units**
- GEOC 120: Physical Geography
- GEOC 124: Thinking and Communicating Geospatially
- GEOC 126: Computer Aided Design and Drafting
- GEOC 129: Field Data Acquisition and Management
- IGETC 5A

**Careers in**
- Government
- GIS technician