GEOGRAPHIC INFORMATION SYSTEMS AND GEOMATICS GRADUATE CERTIFICATE

Introduction
The graduate certificate in geographic information systems (GIS) is designed to supplement knowledge needed in the professional work environment or as a way to see if a graduate degree in GIS is a good fit. Students may earn this certificate without formal admission to a master’s degree program in engineering if they take these classes as a non-degree student.

Certificate Requirements
The GIS graduate certificate requires the successful completion of four core GIS classes with a grade of B- or better; any prerequisites for those individual classes are also required.

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<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<td>Complete four of the following:</td>
<td>12</td>
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Any prerequisites for those individual classes are also required
- CVEN 5381 Introduction to Geographic Information Systems
- CVEN 5382 Geospatial Data Development
- CVEN 5383 GIS Analysis
- CVEN 5384 GIS Project Management
- CVEN 5385 GIS Relational Database Systems
- CVEN 5387 Advanced Remote Sensing
- CVEN 5388 Geographic Information Systems for Transportation Infrastructure (GIS-T)
- CVEN 5390 Interactive Web Mapping GIS
- CVEN 5391 Introduction to Geomatics
- CVEN 5392 Unmanned Aerial Systems
- CVEN 5395 GPS/GNSS
- CVEN 5396 HDS/LiDAR Tools & Data Analyses
- CVEN 5397 Unmanned Aerial Systems Data processing

For more information about geomatics and geographic information systems at CU Denver, visit our research page (https://engineering.ucdenver.edu/civil-engineering/research-specialty-areas/geomatics-gis/).

For general information contact the Department of Civil Engineering at civilengineering@ucdenver.edu.