Eligibility, Application, and Tuition and Fee Information

The certificate program is open to all. Applicants already enrolled in a University of Colorado degree program need only submit an internal application to the CAP GIS certificate program. Applicants who are not currently enrolled in a degree program must apply to CU Denver as non-degree seeking students and also submit an application to the CAP GIS certificate program. More details on the process are available from the coordinators.

Apply as a non-degree-seeking student in the Admissions area of the university website.

Find tuition and fee information in the Bursar's Office area of the university website.

Students interested in pursuing the GIS Certificate may start the conversation with their academic advisors, or one of the GIS coordinators. Michael Hinke serves as the director of the interdisciplinary GIS teaching lab on campus (the Facility for Advanced Spatial Technology), and he is happy to talk to students who need more information about classes taught in Geography and Civil Engineering.

Course Requirements

The GIS Certificate is designed to supplement students' course work in their field of study. Degree seeking students in the College of Architecture and Planning wishing to pursue the GIS Certificate are expected to take 12 additional semester hours of course work to complete the certificate.

Achieving the GIS certificate in your degree program requires you to follow the appropriate advising sheet.

- Master of Landscape Architecture - GIS Advising Sheet
- Master of Urban and Regional Planning - GIS Advising Sheet

Code | Title | Hours
--- | --- | ---
**Part 1: Introductory GIS Class**
URPL 6250 | GIS for Urban Planning | 3
or LDAR 5540 | Introduction to GIS | 3

**Part 2: Advanced GIS Methods Class**
URPL 6260 | Advanced Geo-Spatial Methods | 3

**Part 3: Remote Sensing**
Select one of the following:
- GEOG 5060 | Remote Sensing I: Introduction to Environmental Remote Sensing | 3
- GEOG 5070 | Remote Sensing II: Advanced Remote Sensing |
- GEOG 5093 | Remote Sensing of the Environment (Boulder Campus course) |

**Part 4: Specialized Advanced Classes**
Select 9 semester hours of the following:
- GEOG 5081 | Cartography and Computer Mapping |
- GEOG 5085 | GIS Applications for the Urban Environment |
- GEOG 5090 | Environmental Modeling with Geographic Information Systems |
- GEOG 5091 | Open Source Software for Geospatial Applications |
- GEOG 5092 | GIS Programming and Automation |
- GEOG 5095 | Deploying GIS Functionality on the Web |
- GEOG 5230 | Hazard Mitigation and Vulnerability Assessment |
Geospatial Information Science Graduate Certificate

CVEN 5382  Geospatial Data Development
CVEN 5385  GIS Relational Database Systems
CVEN 5800  Special Topics (Geomatics for GIS)
LDAR 6686  Special Topics: Landscape Architecture

Any course from the Part 3 list (either track) not already used to fulfill the Part 3 requirement

Up to 3 semester hours from a studio course where intensive GIS is used. ²

Up to 3 semester hours for an internship using GIS in a planning or design context, also by petition. ³

Other relevant courses by permission

Part 5: Portfolio

| Total Hours | 18 |

¹ Cost and financial aid availability may vary.
² This must be done by submitting a petition to the coordinators describing the GIS activities undertaken.
³ Please see the coordinators before you start the process of looking for an internship.

Portfolio

Students pursuing the GIS Certificate are strongly encouraged to assemble a digital portfolio of GIS-related work undertaken in classes in the College of Architecture and Planning.

The Certificate Coordinators and the Academic Advisors have materials to help students prepare their portfolios. Students are encouraged to work with the GIS faculty to cater their portfolio to their intended careers.

Note: Students pursuing the GIS Certificate in the College of Architecture and Planning are expected to use GIS data and software in their design and planning related classes.

Graduation

Students who have completed all of the requirements for the GIS Certificate must submit their GIS Certificate form at the start of the semester that they plan to graduate.