Iowa State’s GIS Certificate Program is designed to help you acquire cutting-edge skills that you can immediately apply in the workplace, no matter what field that may be.

This program provides you with the opportunity to choose from a wide variety of courses, from natural resource management to spatial statistics to analytical planning.

By enrolling in Iowa State’s GIS Certificate Program, you will have the opportunity to:

— Learn concepts and applications of GIS technology;
— Obtain hands-on experience using the latest GIS software;
— Use geospatial technology to develop solutions to issues facing communities and industry;
— Explore interdisciplinary elements of GIS, including cartography, topology, database design, and spatial analysis;
— Understand how GIS is used within community and regional planning, landscape architecture, geology, archaeology, civil engineering, and natural resource ecology management, among others; and
— Increase your marketability, get a competitive edge on the competition, obtain valuable skills and enhance your resume with another degree.
The Department of Community and Regional Planning (CRP) offers a multidisciplinary graduate certificate in Geographic Information Systems (GIS). The GIS Certificate Program is open to graduate students in all disciplines of the university. Students must complete a minimum of 13 graduate credits of GIS coursework to receive the certificate. In addition, students must maintain a grade average of B or higher in these courses.

**ADMISSIONS STANDARDS**

To be admitted into the GIS Certificate Program, prospective students should meet one of the following admissions standards:

— Current ISU graduate student.

— New graduate applicants holding a bachelor’s degree or higher are required to meet the same standards as for full admission as stipulated in the Graduate College Handbook. Provisional or restricted entry may be considered.

— Qualified ISU undergraduate students also may participate in the program. They can take up to 9 credits of graduate courses (beyond the requirements of their undergraduate degree) and, with the approval of the ISU GIS Certificate Program Committee, apply them to the GIS Certificate. After completing their undergraduate degree, they should enroll as a graduate student and finish the remaining certificate requirements.

**CERTIFICATE REQUIREMENTS**

The GIS Certificate Program consists of 13 credits. Students must complete the following GIS coursework:

- 3 credits from the [Foundations of GIS](#)
- 6 credits from the [GIS Tools & Techniques](#)
- 3 credits from the [GIS Applications](#)
- 1 credit of [GIS Seminar](#)

Ideally, the certificate program can be completed in three semesters or less, depending upon course availability. Qualified students can enter the program any semester.

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**GIS CERTIFICATE COURSES**

**FOUNDATIONS OF GIS**

- CRP 551: Introduction to GIS
- Geol 552: GIS for Geoscientists

**GIS TOOLS & TECHNIQUES**

- CE 551: Urban Transportation Planning Models
- CRP 552: Geographic Data Management & Planning Analysis
- CRP 553: Analytical Planning & Visualization with GIS
- Geol 588: GIS for Geoscientists II
- LA 302: Regional Landscape Design
- LA 567: Advanced GIS Landscape Modeling
- NREM 345: Natural Resource Photogrammetry & Photo-Interpretation
- NREM 546: Integrating GPS & GIS for Natural Resource Management
- Stat 406: Statistical Methods for Spatial Data
- Stat 506: Spatial Statistics
- Stat 606: Advanced Spatial Statistics

**GIS APPLICATIONS**

- CRP 590: Special Topics: Spatial Analytical Methods
- LA 590: Special Topics: Computer Applications

**GIS SEMINAR**

- CRP 595: Seminar in GIS Applications & Research

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**WHERE CAN GIS TAKE YOU?**

- CRP 551: Geol 552:
- CE 551: CRP 552:
- CRP 553: Geol 588:
- LA 302: LA 567:
- NREM 345: NREM 546:
- Stat 406: Stat 506:
- Stat 606: CRP 590:
- LA 590: CRP 595: