Create the big picture in geographic information systems with digital models.

GISc is part of the global cyber infrastructure concerned with the acquisition, storage, manipulation and analysis of spatial data and processes. With UND's online graduate certificate, you'll develop the skills and tools needed to explore and analyze this data ranging from business markets and transportation networks, to physical and chemical processes in the environment.

Program Snapshot

<table>
<thead>
<tr>
<th>Program type: Certificate - Graduate</th>
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<tbody>
<tr>
<td>Format: Online</td>
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<tr>
<td>Est. time to complete: 1 year</td>
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<td>Credit hours: 12</td>
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Why Study Geographic Information Sciences at UND?

This online graduate certificate program in Geographic Information Sciences from UND is designed for working professionals. You'll develop a solid theoretical foundation in GISc and the technical skills needed to digitally model landscapes and enable the mathematical characterization of spatial and temporal processes.

This online program emphasizes the development of graduate-level GISc professionals who are highly qualified to work in:

- Education
- Government
- Private industry

The part-time, online GISc program is designed for non-degree seeking professionals who are unable to complete a full-time, on-campus program. You are not required to come to campus at any time.

Application Deadline

Summer: May 1

Program Highlights

- Understand foundational theory and principles of cartography and geographic information systems.
- Develop a critical eye when designing and interpreting maps.
- Appropriately model landscape features and to analyze spatial relationships among them.
- Conduct applied research projects using geospatial technology tools.

Outcomes

- **74K** median annual salary for geographers.*
- **90K** median annual salary for geoscientists.*

*U.S. Bureau of Labor Statistics
GiSc students may have educational backgrounds in any field, and commonly have undergraduate degrees in a wide range of areas, including:

- Anthropology
- Atmospheric sciences
- Biology
- Business
- Computer science
- Criminal justice
- Geography
- Geology
- History
- Physical or social science education
- Space studies