

MINOR IN GEOGRAPHIC INFORMATION SCIENCE AND GEOGRAPHIC ANALYSIS

The Geographic Information Science and Geographic Analysis minor has a broad interdisciplinary application. The analytical methods introduced and the technologies used in the different courses and applied lab work are relevant to many disciplines including: urban and regional planning, marketing and business, archaeology, agriculture, conservation and engineering. This minor is designed for all students desiring to gain a background in the geographic theory, methods, tools and technical skills that will increase their employment potential in any number of applied fields where geographic analysis is a valuable skillset.

Learning Objectives

After successfully completing this minor, students will be able to:

1. Address spatial thinking and spatial problem-solving across a range of disciplines and applied fields.
2. Appropriately and accurately make use of different digital data sources, and apply geographic information science tools and analysis to these data in order to analyze and recommend actions related to real world problems.
3. Understand and appropriately apply geographic analysis principles and methods, including spatial modelling, to real-world problem solving.
4. Use state-of-the-art geographic information system software and computer cartography software to implement spatial analysis of geographic problems faced by managers, planners, and employees across a range of fields and disciplines.
5. Master concepts of spatial data collection, spatial data entry, and spatial analysis/geographic analysis for real-world problem solving.
6. Utilize geographic analysis methods and analytical procedures to produce cartographically sound thematic maps from geographic information.