# INTRODUCTION TO GEOGRAPHICAL INFORMATION SYSTEMS

*This course introduces fundamental concepts of geographical information systems (GIS) and the major functionality contained within professional GIS software. In course exercises, you will follow the GIS analytical process and work with a variety of tools to solve realistic problems. This course emphasizes practical GIS software skills.*

- Understand basic concepts of GIS and how it is used for decision making
- Collect geo-spatial data
- Work with a GIS map to find features of interest, analyze patterns, and derive useful information
- Classify, symbolize, and label map features to support data visualization and interpretation
- Create and edit geographic data to accurately represent real world objects
- Perform spatial analysis using queries, geoprocessing tools, and models
- Design high-quality maps and reports to share analysis results with others
- Explore careers in the geo-spatial industry
- Create a Geo-spatial Project