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# GEOGRAPHIC INFORMATION SYSTEMS

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**GIS 109**      **Intro Geogrphc Info Syst****3 Credits**

An introduction to Geographic Information Systems (GIS) covering the basic concepts. Principles of cartography and spatial analysis are presented. The intent is to prepare the student for advanced training using specific GIS software. Prerequisite:

**GIS 320**      **GIS in Bus/Community****3 Credits**

Basic techniques for geographic analysis and summary of business or community problems. Finding patterns and relationships in tabular and spatial data is emphasized. Popular geographic information systems software will be used for demonstration and for projects. Students will work in teams to identify a problem and to collect data for visualization and analysis of the problem. To present findings, students will create a map layout. Prerequisite: Must have completed CIT 303 or GIS 109 or GIS 301.