



## **Geography 3140-090**

### **Introduction to Geographic Information Systems (GIS)**

**Course Objectives:** A recent increase in the use of digital geographic information in many fields has created the need for experts with the knowledge to use this information to society's benefit. Geographers, engineers, environmental scientists, planners, social scientists, computer scientists and many other professionals will encounter digital geographic information in some form in their future careers. This course introduces students to issues that arise in using this information in scientific and decision-making arenas. Topics include: applications of geographic information; modeling geographic reality; spatial data collection; geographic analysis; accuracy and uncertainty; visualization; and legal, economic, and ethical issues associated with the use of geographic information.

**System Requirements:** This class can be "attended" from anywhere there is an Internet connection. All work, including exams is submitted electronically.

#### **Instructor**

Elizabeth Dudley-Murphy, Ph.D., Adjunct Associate Professor, Dept. of Geography  
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#### **General Education Status**

Fulfills Quantitative Intensive BS - **4 semester credit hours**

#### **Prerequisite**

MATH 1030 or MATH 1050 or equivalent