GIS 160: Intro to Geographic Information Systems I

An introduction to Geographic Information systems (GIS). Students learn general GIS and spatial assessment concepts using GIS software to analyze, interpret, and display spatial data for a variety of disciplines.

Course Student Learning Outcomes

1. Explain the similarities and differences between the Geographic, State Plane, and UTM coordinate systems.
2. Recognize the standard map scales and projections and give examples of their best use.
3. Explain the difference between precision (scale) and accuracy.
4. Use ArcGIS software to query for relationships between attributes from different data layers or tables.
5. Describe the limitations and dangers inherent in comparing data from different data layers.
6. Define commonly used GIS and cartography terms.
7. Identify the parts of a map.
8. Choose an appropriate map type for the information to be conveyed.
9. Use ArcGIS software to design and print a map.

Credits: 4
Program: **Geographic Info Science**