

GEOG 265 : GEOGRAPHIC INFORMATION SYSTEMS

Transcript title

Geographic Information Systems

Credits

4

Grading mode

Standard letter grades

Total contact hours

60

Lecture hours

30

Lab hours

30

Course Description

Introduces students to principles and practice of geographic information systems (GIS), while providing experience using ArcGIS and Spatial Analyst software. Develops both theoretical understanding of GIS and experience in accessing GIS datasets. Covers raster and vector GIS.

Course learning outcomes

1. Distinguish the types of features that are represented by different spatial data models (raster vs vector).
2. Use geographic information systems software to edit features and attribute tables.
3. Classify data using various levels of attribute measurement (nominal, ordinal, interval/ratio).

Content outline

Introduction to geographic information systems Map design with Pro Geoids, ellipsoids, and datums Map projections and coordinate systems Spatial data models and the real world Attribute data Level of measurement Classifying data Spatial analysis Terrain analysis

Required materials

This course will require a textbook.

General education/Related instruction lists

- Science not Lab