GIS 2453 Spatial Thinking and GIS Visualization
Approved substitute for GEOG 2453 for GIS majors on the 2010 plan. contact msbrown@ou.edu
Dr. Ting Lei ● M / W 1:00—2:15 2pp room 240
This course introduces students to spatial perspectives on information management and analysis, and the use of maps as an effective means of communication.

GIS 4453 / GIS and Spatial Analysis
May serve as substitute for some GIS majors on the 2010 plan. contact msbrown@ou.edu
Dr. John McIntosh ● T /TH 10:00—11:15 2PP room 240
This course introduces the fundamentals of spatial-analytical approaches, database management, spatial modeling and geocomputation in GIS. Prerequisite 2453, upper division standing or permission of instructor / graduate standing.

GIS 4970—900 / 5970—900 Web GIS: Principles and Applications
Dr. May Yuan ● T / R 4:00—5:15 2PP room 240
The success and popularity of Google Maps has led to fast development of Web GIS (a.k.a. Internet GIS or Cyber GIS) in e-government, e-business, e-community, and e-science. Along with the fast growing internet and mobile technology, web GIS is becoming the primary platform for geospatial data search, dissemination, and mapping. Recent Web GIS developments are geared towards the incorporation of analytical tools, geoprocessing workflows, crowdsourcing and building a virtual collaborative environment. This introductory course will cover the basic internet technology that afford Web GIS development, the conceptual frameworks that support Web GIS functions, and the technologies and techniques to develop Web GIS applications. Students will learn both what Web GIS is and how to build Web GIS applications. The course is hands-on and project-oriented. Prerequisite at least one GIS course and one computer programming course.

GIS 4953 Geoinformatics Capstone Seminar
Dr. May Yuan ● M 9:00—11:50 2PP room 240
This course provides an introductions to contemporary research challenges in Geoinformatics. Students will formulate a research question and proposal which will guide the student in senior research project design, implementation and presentation to address fundamental or applied problems with spatial thinking. Prerequisite senior standing or permission.