BA in Geography with Emphasis in Geographic Information Sciences

Degree Program Description
Geographers are interested in a wide range of topics and often work in interdisciplinary teams that analyze challenges like environmental change, resource use, and economic issues in an increasingly interdependent world. The study of Geographic Information Systems trains students to address the variety of technologies revolutionizing geographic analysis such as GIS, Global Positioning Systems, remote sensing, computer assisted cartography and spatial statistics. Geography prepares students for a variety of professions including careers in environmental impact assessment, mapping, remote sensing, geographic information analysis, government service, military intelligence, as well as education. Geographers are interested in a wide range of topics and often work in interdisciplinary teams that analyze challenges like environmental change, resource use, and economic issues in an increasingly interdependent world. Geography majors receive marketable skills during their undergraduate experience. Recent graduates work for companies such as ESRI and Garmin. MU geography graduates have also found employment with government agencies, including the National Park Service, National Geospatial-Intelligence Agency, U.S. Geological Survey, Missouri Department of Natural Resources, and Missouri Department of Transportation.

Major Program Requirements
The study of GIS prepares students to address the variety of technologies revolutionizing geographic analysis such as GIS, Global Positioning Systems, remote sensing, computer assisted cartography and spatial statistics. Students must take three of the following courses:

- GEOG 3040 Introduction to Geographic Information Systems GIS 3
- GEOG 3830 Remote Sensing 3
- GEOG 4130 The Geospatial Sciences in National Security 3
- GEOG 4710 Spatial Analysis in Geography 3
- GEOG 4740 Location Analysis and Site Selection 3
- GEOG 4790 Geographic Information Systems for the Social Sciences 3
- GEOG 4810 Landscape Ecology and GIS Analysis I 3
- GEOG 4860 Advanced Remote Sensing 3
- GEOG 4940 Advanced Geographic Information Systems (GIS II) 3

Semester Plan
Refer to the Semester Plan for the BA in Geography (http://catalog.missouri.edu/undergraduategraduate/collegeofartsandscience/geography/ba-geography).