DESCRIPTION:
The Geography Department offers a Bachelor of Science with a specialization in Geotechnologies. The Geotechnologies specialization emphasizes proficiency in geo-spatial methods. Additional skills developed include: critical thinking and reasoning, visual design, research techniques, oral and written communications, and mathematics and statistics. Students obtaining the Geotechnologies specialization will learn the tools, methods, and software necessary to manage and analyze spatial data and information. The courses and specialization can be applied towards becoming a certified GIS Professional (GISP) from the GIS Certification Institute. This specialization is recommended for students interested in employment as a GIS or Remote Sensing Analyst, Cartographer, Planner, or graduate study in Geography or related Geotechnology field. All students are required to have a minor. Students are encouraged to meet with their assigned departmental advisor every semester to ensure adequate progress towards graduation. Only Geography Core and Specialization requirements are shown below.

Major Requirements (48 units)

A. Geography Core (21 units)
   See Geography B.S. Core

B. Geotechnologies Specialization (18 units)

   Specialization Core (7 units)
   GEOG 312 - Cartography (3 units)
   GEOG 405 - GIS I: Geographic Information Systems and Science (4 units)

   Specialization Electives (11 units)
   GEOG 407 - Advanced GIS Analyses (4 units)
   GEOG 409 - GIS Design Studio (3 units)
   GEOG 411 - Remote Sensing: Principles and Applications (3 units)
   GE 404 - Introduction to Aerospace Remote Sensing (3 units)
   GPH 411 - Geophysical Geodesy (3 units)
   GEOG 412 - Computer Mapping (3 units)
   GEOG 495 - Internship in Geography (1-3 units)

Geography Electives (9 units)