**Bemidji State University**

**GEOG 4275: Advanced Geographic Information Systems**

**A. COURSE DESCRIPTION**

Credits: 3  
Lecture Hours/Week: *.*  
Lab Hours/Week: *.*  
OJT Hours/Week: *.*  
Prerequisites: None  
Corequisites: None  
MnTC Goals: None  

This course will give students hands on experience working with advanced geodatabases, the basic automation and scripting of geospatial processes, web mapping, and server side application in GIS. Prerequisites: GEOG 3231 and GEOG 3232.

**B. COURSE EFFECTIVE DATES: 08/25/2014 - Present**

**C. OUTLINE OF MAJOR CONTENT AREAS**

1. Advanced GIS focuses on the application, customization, and administration of high-end GIS services including spatial databases, web-based platforms, and Global Positioning Systems (GPS).

**D. LEARNING OUTCOMES (General)**

1. The student will be able to develop and manage spatial databases;  
   The student will be able to develop automation tools for GIS;  
   The student will be able to create basic scripts to augment the GIS platform;  
   The student will be able to apply GIS strategies across an Internet web environment; and  
   The student will be to implement and manage GIS-server environments.

**E. Minnesota Transfer Curriculum Goal Area(s) and Competencies**

None

**F. LEARNER OUTCOMES ASSESSMENT**

As noted on course syllabus

**G. SPECIAL INFORMATION**

None noted