

# 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