**Bemidji State University**

**CS 3752: Data Mining**

**A. COURSE DESCRIPTION**

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

This course will provide an investigation into common Data Mining models, methods and techniques pioneered within the field of Artificial Intelligence. Topics covered may include any/all of the following: knowledge representation, clustering schema, decision trees and neural networks. Some student facility with mathematics and basic statistics is assumed. Prerequisites: CS 3528. May not be offered every year.

**B. COURSE EFFECTIVE DATES:** 01/11/2016 - Present

**C. OUTLINE OF MAJOR CONTENT AREAS**

1. Core Computer Science & Applied Artificial Intelligence  
2. Information Extraction and Analysis  
3. Machine Learning  
4. Model interpretation and validation

**D. LEARNING OUTCOMES (General)**

1. have working knowledge of various common data mining methods.  
2. will apply new knowledge to real-world datasets resistant to traditional analytic approaches.  
3. will present results of one or more approaches, acknowledging strengths and shortcomings of each.

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

None

**F. LEARNER OUTCOMES ASSESSMENT**

As noted on course syllabus

**G. SPECIAL INFORMATION**

None noted