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