A. Course Description

Credits: 3

Lab Hours/ Weeks: Corequisites: None

Lecture Hours/ Week :

MnTC Goals: None

B. Course Effective Dates: 12/15/2019 - 08/23/2020

C. Outline of Major Content Areas:

See Course Description for major content areas.

D. Learning Outcomes (General)

1. Understand the difference between descriptive, predictive and prescriptive analytics.
2. Analyze data and identify important relations and patterns using data visualization techniques and tools.
3. Apply descriptive data mining or unsupervised learning techniques such as cluster analysis, association rules, and text mining.
4. Classify a categorical response or estimate a continuous response using predictive data mining or supervised learning methods including logistic regression, k-nearest neighbors, and classification/regression trees.
5. Construct and evaluate models using training, validation and test sets.
6. Use software to analyze real-world data and communicate results and recommendations.

E. Learning Outcomes (MN Transfer Curriculum)

This contains no goal areas.

G. Special Information

Prerequisites: Bachelor's degree in mathematics, mathematics education, statistics or related field.