A. Course Description

Credits: 4

Prerequisites: STAT 252 Statistics Programming AND
STAT 301 Analysis of Variance and Multivariate Analysis AND
STAT 311 Regression Analysis

OR

DATA 211 Data Science and Visualization

OR

MIS 480 Predictive Analytics

Lab Hours/ Weeks: Corequisites: None

Lecture Hours/ Week :

MnTC Goals: None

This advanced workshop will give students exposure to the statistical and non-statistical issues that arise in statistical problem solving, and provide an experiential background in statistical consulting. Students will develop the knowledge, skills, and professional rapport necessary to interact with clients, including the skills necessary for communicating technical statistical content with non-statisticians.

B. Course Effective Dates: 01/08/2018 - Present

C. Outline of Major Content Areas:

See Course Description for major content areas.

D. Learning Outcomes (General)

1. Understand a client's statement of a problem and communicate with the client for clarification.
2. Identify the appropriate statistical techniques for authentic client projects and solve their problem.
3. Recognize situations in which familiar techniques do not apply and research possible alternative techniques.
4. Enhance critical thinking skills through self-reflection and peer assessment.
5. Improve ability to work cooperatively as a team member.
6. Write reports at an appropriate statistical level for a client.
7. Present a statistical investigation at a level appropriate for the audience.
8. Discuss the ethical aspects and implications of professional statistical work.

E. Learning Outcomes (MN Transfer Curriculum)

This contains no goal areas.

G. Special Information

Note: For Business Analytics Minors, STAT480 Statistical Consulting can be taken concurrently with MIS480 Predictive Analytics if the prerequisites are not met.