Experiments are the “Gold Standard” of data collection. No drug comes to market without experiments to demonstrate its safety and effectiveness. This course covers the principles of experimental design and provides students with insight into statistically designed experiments and related topics.

Over the last two decades, US firms have been challenged by products of superior quality from overseas, particularly from Japan. To meet this competitive challenge, more US firms now stress total quality management. Quality improvement can be accomplished using experimental design principles. The second part of the course covers the core principles of the management of quality in the production of goods and services.

As more and more data are collected, stored and analyzed, students find that gaining expertise in data collection and data analysis skills greatly enhances their career opportunities. This course is ideal for all majors. (Pre-requisite: C or better in Stat 2103, 2101, 2102 or its equivalent).