Course Description

This course is intended as an introductory course in applied statistics for engineering students. No previous background in statistics is required. Emphasis will be placed on the application of statistical methods for a variety of data analysis problems that commonly occur in engineering applications. Excel software will be used to illustrate the application of widely available statistical software. The course will include the following topics:

- Probability concepts and distributions
- Confidence intervals and hypothesis testing
- Error analysis
- Model building and parameter estimation
- Design of experiments
- Process monitoring and quality control

Grade Distribution

- Quiz 1 20%
- Quiz 2 20%
- Home Problems 10%
- Final Exam 50%