PREREQUISITES: Math 210 or Engr 311

CATALOG DESCRIPTION: Basic probability distributions, fundamentals of statistical inference, hypothesis testing, one way classification, analysis of variance, covariance, use of variance components, and their estimation, comparative experiments, multiple comparisons, and regression.

OBJECTIVES: The course prepares the students majoring in the mathematical sciences for careers involving Statistics. The student will:
1.) Be able to perform traditional hypothesis tests and nonparametric alternatives.
2.) Test Population Variances.
3.) Perform Analysis of Variance.
4.) Perform Chi-Square Goodness of Fit and Independence and Homogeneity tests.


OUTLINE:

CHAPTERS TITLE
6 Inferences Comparing Two Populations Central Values
7 Inferences About Population Variances
8 Inferences about More than Two Population Central Values
9 Multiple Comparisons
10 Categorical Data
11 Linear Regression and Correlation

Various other Topics Selected by the Instructor