COURSE SYLLABUS

COURSE TITLE: STATISTICS 361 - STATISTICS FOR MANAGEMENT I

CREDIT HOURS: 3

TRIMESTER: SPRING/SUMMER 1995

INSTRUCTOR: NATHAN R. KEITH


Calculator equivalent to TI36 will be needed.

COURSE DESCRIPTION:
This course is designed to introduce basic statistical concepts which can be used to aid in business decision making. It is the first of a sequence of two courses and will cover material through hypothesis testing. Topics include descriptive statistics, probability and probability distributions, sampling distributions, confidence intervals and hypothesis testing.

It will be assumed that all students have a background in mathematics through College Algebra and that you either know or can learn quickly summation notation which is used in writing statistical notation.

After completing this course you should be able to:
- summarize the important characteristics of a data set
- present data in an easily interpretable form
- compute and interpret various probabilities
- apply various probability distributions to real problems
- construct and interpret confidence intervals
- perform and interpret hypothesis tests

EVALUATION-GRADING: TEST 1 50%
  HMWK 10%
  FINAL 40%

Homework will be assigned weekly but only asked to be turned in periodically. You are expected to do all assignments and should expect to present results in class when asked to do so. Failure to present a homework problem in class is synonymous with a missed business opportunity.
WEEKLY LECTURE/ READING SCHEDULE

Week 1  Introduction                   Chapter 1
        Descriptive Statistics         Chapter 2

Week 2  Descriptive Statistics       Chapter 3

Week 3  Probability                  Chapter 4
        Discrete Probability Distributions  Chapter 5

Week 4  Continuous Probability Distributions  Chapter 6

Week 5  TEST

Week 5  Sampling Distributions       Chapter 7

Week 6  Sampling Distributions       Chapter 7

Week 7  Confidence Intervals         Chapter 8

Week 7  Hypothesis Testing           Chapter 9

Week 8  FINAL EXAM