OBJECTIVES:
This course is designed to train undergraduate students in descriptive and inferential statistics. It is intended to help students analyze research they may conduct, and give them confidence in understanding the results of research carried out by others. Upon completion of this course, the student should:

1. Have an understanding of basic statistical terms.
2. Be able to correctly perform a variety of statistical tests.
3. Have a feeling of confidence with regard to the reading of statistically oriented research reports.
4. Have an ability to detect the misuse of statistics.

TEXT:  Elementary Statistics  8th Ed, by Robert Johnson

REQUIREMENTS:
Students will be expected to attend class and participate in all activities. Attendance is mandatory. Students are responsible for all material presented in class, and material assigned from the text. New concepts are presented during almost every class period. It is very difficult to do well without attending class.

Students will be allowed three unexcused absences. Students with more than three unexcused absences will be penalized 5% of the total semester points for each unexcused absence exceeding three.

Professor Sowby's policy on make-up tests will be discussed the first week of class. BE SURE YOU UNDERSTAND IT!!!!!  No extra credit work will be allowed.

Homework assignments will take a variety of forms. Homework will only be accepted on the due date. If you do the problems you will receive credit. Homework is not checked for accuracy. We will go over every assigned homework problem in class so you can see where you may have made errors. Tests will cover material from the text and class lectures. Problems on the tests will be similar to those assigned as homework. Some tests require the use of the computer, and will be take home tests.
GRADING:
  Homework, Exams:
  90-100% of total points = A
  80-89% of total points = B
  70-79% of total points = C
  60-69% of total points = D
  Below 60% of total points = F

ORDER OF PRESENTATION:
We will not cover all the material in each chapter. Please be sure you understand what pages to study and what pages to delete.

  Chapter 1  Introduction to Statistics
  Chapter 2  Single Variable Data
  **Test # 1**
  Chapter 6  Normal Probability Distributions
  **Test #2**
  Chapter 7  Sample Variability
  **Test # 3**
  Chapter 8  Intro to Statistical Inference
  **Test # 4**
  Chapter 10  Inferences About Two Populations
  Chapter 11  Applications of Chi-Square
  **Test # 5 and Take Home Test # 5**
  Chapter 12  Analysis of Variance
  Chapter 3  Presentation of Bivariate Data
  Chapter 13  Correlation and Regression
  Chapter 14  Spearman Correlation Section
  **Test # 6 and Take Home Test # 6**

(The extent of Test # 6 and Take Home # 6 will depend on how much material we can cover during the semester)