

STATISTICS 1410 A3

WINTER TERM 1997

TITLE: Introduction to Statistics

INSTRUCTOR: Thomas Kaip
Office J 212
Phone 539-2963

TEXT: Johnson and Bhattacharyya, third edition,

TIME:

| | | | | | |
|--------|-------------|-------|-------|----------------|------|
| Class: | Mon. | Wed. | Fri., | 12:00 - 12:50, | J201 |
| Labs: | ST1410 AL1, | Thu., | | 08:00 - 08:50, | J202 |
| | ST1410 AL2, | Fri., | | 08:00 - 08:50, | J202 |

MARKING:

| | | |
|-------------|------|--------------|
| Final | 50 % | |
| Midterm | 25 % | Wed. Feb. 19 |
| Lab Quizzes | 5 % | |
| Assignments | 10 % | |
| Worksheets | 10 % | |

NOTE: Upon written request a student may be excused from the midterm exam for medical, or other valid reason and then have the final exam worth 75%

NOTE: Statistics 1410 is among the requirements for the following programs: Agriculture and Forestry, Pre-Medicine, Pre-Optometry, Pre-Veterinary Medicine, Food Science, Secondary Education (Mathematics major), and Food Sciences. Statistics 1410 may also be used as the mathematics option for all Education Students.

COURSE CONTENT: Random variables and frequency distributions. Averages and variances. The binomial and normal distribution. Sampling distributions. One and two population statistical inference. The χ^2 -test and contingency tables. Regression and correlation.

TOPICS COVERED:

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|--------|---|
| Ch 1&2 | Introduction and Descriptive Statistics |
| Ch 3 | Bivariate Data |
| Ch 4 | Basic Probability |
| Ch 5 | Probability Distributions |
| Ch 6 | Normal Distribution |
| Ch 7 | Sampling Distributions |
| Ch 8 | Large Sample Inference |
| Ch 9 | Small Sample Inference |
| Ch 10 | Two Population Inference |
| Ch 11 | Linear Regression |
| Ch 13 | Chi-Squared Tests |