

STATISTICS 270-3

INTRODUCTION TO PROBABILITY AND STATISTICS

Fall 2004
DAY COURSE

Instructor: Dr. T. SWARTZ
Lab Instructor: R. INSLEY

Prerequisites:

MATH 152 or MATH 155 or MATH 158 must precede or be taken concurrently. Students with credit for MATH 371 or MATH272 may not take STAT 270 for further credit.

Textbook:

Probability and Statistics for Engineering and the Sciences (6th ed) by J. Devore, Duxbury publishers.

Calendar Description:

Basic laws of probability, sample distributions. Introduction to statistical applications.

Outline:

1. Introduction to descriptive statistics and chance phenomena.
2. Elementary probability rules, basic combinatorial formulae, conditional probability, independence, and Bayes' theorem.
3. Binomial, hypergeometric, and Poisson distributions.
4. Expectation and variance.
5. Continuous distributions, uniform, e