STATISTICS 270-3
INTRODUCTION TO PROBABILITY AND STATISTICS

Spring 2004
DAY COURSE

Students requiring accommodations as a result of disability, must contact the Centre for Students with Disabilities 604-291-3112or csdo@sfu.ca

Instructor: R. Insley
Lab Instructor: R. INSLEY

Prerequisites:

MATH 152 or MATH 155 or MATH 158 must precede or betaken concurrently. Students with credit for MATH 371 or MATH272 may not take STAT 270 for further credit. Students wishing an intuitive appreciation of a broad range of statistical strategies may wish to take STAT 100 first.

Textbook:

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

Calendar Description:

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

4. Expectation and variance.
5. Continuous distributions, uniform, exponential, gamma, and normal distributions, normal a distribution.
6. Discrete, bivariate distributions, joint, marginal, and conditional distributions, covariance a
7. Sums of random variables, law of large numbers, the central limit theorem.
8. Introduction to sampling distributions with application to basic hypothesis testing, control c interval problems for a proportion and a mean.
9. Scatterplots, simple linear regression, and the correlation coefficient(subject to time availab

Grading:

Assignments = 15%
Midterms = 2 x 20% = 40%
Final = 45%

Students should be aware that they have certain rights to confidentiality concerning the return of course papers and the posting of marks. Please pay careful attention to the options discussed in class at the beginning of the semester. Students are reminded that Academic Honesty is a cornerstone of the acquisition of knowledge. Scholarly integrity is required of all members of the University. Please consult the General Guideline of the calendar for more details.

Revised October 2003