

STATISTICS 241 A3

Winter Term

TITLE: Introduction to Statistics

INSTRUCTOR: Dr. Subhash Karnik  
Portable A  
Phone Extension 2093

TEXT: Khazanie: Elementary Statistics in a World of  
Applications

TIME: Class: Mon., Wed., Fri., 12:00 to 12:50  
Lab: Thursdays, 9:30 to 10:30

MARKING: Mid-term 25%  
Final 50%  
Quizzes 15%  
Assignments 10%

## STATISTICS 241

ST 241 INTRODUCTION TO STATISTICS

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Random variables and frequency distributions. Averages and variances. The binomial and normal distribution. Sampling distributions and elementary inference. The  $\chi^2$  test for contingency tables. Regression and correlation. Analysis of variances.

Prerequisite: Mathematics 30

Note: Credit cannot be obtained in both ST 241 and ST 255.

Note: ST 241 is listed among the requirements of the following programs: Agriculture and Forestry, pre-Medicine, pre-Optometry, pre-Veterinary Medicine and Food Sciences. ST 241 may also be used as a Mathematics option for Education students.

### Detailed Description and Approximate Time Devoted to Various Topics:

Organization of Data .....	1 week
Measures of Central Tendency and Dispersion .....	1 week
Probability .....	1 1/2 weeks
Probability Distributions.....	1/2 week
Binomial and Normal Probability Distributions .....	1 week
Sampling Distributions .....	1 week
Estimation - Single Population .....	1 week
Estimation - Two Populations .....	1 week
Tests of Hypotheses .....	1 week
Goodness of Fit and Contingency Tables .....	1 week
Linear Regression and Linear Correlation .....	1 1/2 weeks
Analysis of Variance .....	1 week
Non-Parametric Methods .....	1/2 week

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13 weeks