

(—; 3-1-0)

Introduction to Applied Statistical Methods

STAT-265*

The purpose of this course is to sharpen students' skills at data analysis, statistical reading and writing. This course is a sequel to STAT-264* and assumes that students are familiar with and have access to DataDesk, the statistical package used in STAT-264*. Students are free to use a different package but help in using a different package may not be available. The course looks at non-parametric analogues to the statistical techniques covered in STAT-264*, in particular one and two sample t -tests and confidence intervals for estimates of the mean. Simple linear regression and contingency tests are covered in more depth than in STAT-264*. Additional topics in this course are: probability multilinear regression, analysis of variance and some goodness of fit tests. About 40% of the marks for the course are awarded for small group projects.

Textbook: *A Casebook for a First Course in Statistics and Data Analysis*
by Chatterjee, Handcock and Simonoff (John Wiley and Sons)

The course makes use of the data on the data disk and of the written descriptions of the cases. In addition it is assumed that students have the CD and text from STAT-264*.

Prerequisite: STAT-264*

Students presenting an equivalent are responsible for becoming familiar with DataDesk or some other equivalent package.

Instructor: J. M. Geramita

Evaluation:

Projects (3), 14 marks each for a possible total of 42

Three hour examination in April for a possible total of 58