

Grande Prairie Regional College Department of Arts, Commerce and Education

MANAGEMENT SCIENCE 3120 Applied Statistics for Business and Economics II

Winter 2003

Instructor:

Rick Beeson

Office:

C306

Phone:

539-2864

Office Hours:

10:00-11:30 MW

Course Description:

Statistical inference for variance; statistical inference for the means; proportions and variances from two populations; analysis of variance; non-parametric statistics; joint probability distributions; covariance; correlation and independence; contingency tables; simple linear regression; multiple linear regression; non-linear regression; and time series analysis are topics covered in the course.

Text:

Paul Newbold, Statistics for Business & Economics, Fifth Edition, Prentice Hall, 2003

Labs:

There is a strong emphasis on the microcomputer and the statistical software, SPSS for Windows. This software is available in lab. Students are expected to become familiar with statistical analyses using SPSS. To integrate the computer use into the course, a term-paper is planned (date collection, data entry, model building, statistical calculation & output, output interpretation).

Prerequisite:

MS3010 or ST1510

Grading:

Term Paper	20 %
Examinations	80 %
First Exam	25%
Second Exam	25%
Final Exam	30 %

Course Outline: Review:	Text Reading
Week 1 Jan6-10	Text Reading
Why Study Statistics:	O
willy Study Statistics.	Ch. 1
Week 2 Jan13-17	
Describing Data:	Ch, 2
Week 3 Jan20-24	
Summarizing Descriptive Relationships:	Ch. 3
Week 4 Jan27-31	
Sampling and Sampling Distributions:	Ch. 7
Week 5 Feb3-7	
Estimating with Confidence Intervals:	Ch. 8
Week 6 Feb10-14	
Hypothesis Testing:	Ch. 9
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Week 7 Feb24-28	797 S78
Simple Linear Regression:	Ch. 10
Week 8 Feb17-21	
Simple Reading Week:	Ch. ?
Week 9 Mar3-7	
Multiple Linear Regression	Ch. 11
Week 10 Mar10-14	
More on Regression	Ch. 12
Week 11 Mar17-21	
Some Nonparametric Tests	Ch. 13
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Week 12 Mar24-28	
Goodness of Fit Tests and Contingency Tables	Ch. 14
Week 13 Mar31-Apr4	
Tests of Variance & Analysis of Variance	Ch. 15
Week 14 Apr7-11	
Time Series Analysis and Forecasting	Ch. 17
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Week 15 Apr14-16	0
Additional Topics in Sampling	Ch. 18