
W 98

GRANDE PRAIRIE REGIONAL COLLEGE
DEPARTMENT OF ARTS, EDUCATION, AND COMMERCE
MG 3120 - Statistics for Business and Economics

Instructor:	Neil Hepburn
Office:	C208
Phone:	539-2895
E-Mail:	hepburn@gprc.ab.ca
Office Hours	MWF 11:00 - 12:00 or by appointment
Lecture Times	MWF 13:00 - 13:50 Room J 203
Lab Times	M 15:00 - 15:50 Room A313
Website:	http://www.gprc.ab.ca/AEC/hepburn/main.htm

Prerequisite

MS 3010, ST 1510, or ST 1410

There is no mathematics or computers prerequisite for this course. However, it is expected that the student will be familiar with basic mathematical notation (what you picked up in your earlier stats courses should suffice.) Also, this course has a computer lab component with it and you will be expected to understand the basics of computers (creating directories, opening and saving files). In addition, a basic understanding of spreadsheets is expected. This is limited to cell referencing (absolute and relative addresses) and the basic built-in mathematical functions of a spreadsheet package such as Excel or Quattro Pro.

Introduction

This course continues on from your first course in statistics. In this course we look at tools of inferential statistics with a view to applications in business and economics. The objectives for the course are:

1. Be able to use the tools of statistics to analyse problems in business and economics
2. Be able to gather data, analyse it, and interpret the results in a meaningful manner.

Your Responsibilities

1. You are expected to attend class on a regular basis. There is a tremendous correlation between attendance and performance on exams – regular attenders tend to do much better on exams.
2. At the start of each month I will handout a reading and problem list for the coming month. You are expected to do the assigned readings and problems before coming to class. Doing so will help you put the content of the lecture in context and you WILL get more out of the lecture.
3. Please arrive on time – late arrivals are disruptive to the rest of the class. If you must arrive late, please get your materials ready before coming into the class room.

Grading and Evaluation

The workload for the course is based on two major tests (midterms), approximately 10 Lab assignments, and a final exam. During the course practice questions will be assigned, but will not be collected for marking – these are meant to help you improve your understanding of the material.

The grade weights are as follows:

Major Tests (20% each)	40%
Lab Assignments	25%
Final Exam	35%
Total	100%

Grande Prairie Regional College uses a nine-point grading system. However, due to the nature of the course work, I will mark each component on a percentage basis and use the weights (above) to assign a final percentage grade. Once the final percentage grade is established, I will assign stanine grades according to the following chart.

Percent	Grade	Percent	Grade
$P \geq 90\%$	9	$50 \leq P < 57$	4
$80 \leq P < 90$	8	$45 \leq P < 50$	3
$72 \leq P < 80$	7	$26 \leq P < 45$	2
$65 \leq P < 72$	6	$0 \leq P < 26$	1
$57 \leq P < 65$	5		

Textbook

There is one textbook for this course.

Newbold, Paul. *Statistics for Business and Economics, Fourth Edition*.
Englewood Cliffs, New Jersey: Prentice-Hall (1995)

Extra Material

During the course I urge you to do the problems in the textbook – one of the great strengths of this book is the number of questions in each chapter. These questions are your best preparation for exams.

Course Content

- We will be covering the following topics in this course. A detailed reading and problem list will be handed out at the start of each month.
- Review of descriptive statistics
- Inference using two populations
- Nonparametric testing methods
- Goodness of Fit tests
- Correlation and simple linear regression
- multiple regression
- hypothesis testing in regression analysis
- Extensions of the regression model (including violations of the underlying assumptions.)
- Analysis of Variance (one-way, two-way, and two-way with replication)
- Other forecasting methods (This is an *optional* topic that we will do if we have time.)

Important Dates to Remember

January 6, 1998	Classes begin
January 12, 1998	Last day to add winter courses
January 19, 1998	Last day to drop winter courses without academic penalty
February 9, 1998	Exam 1 (tentatively set for this day)
February 16, 1998	Family Day, College Closed
February 23, 1998	Reading week begins
March 2, 1998	Classes Resume, Exam 2 (tentatively set for this day)
March 13, 1998	Last day to withdraw with permission from courses (results in a grade of 'W' being recorded on your transcript.
April 10, 1998	Good Friday, College closed
April 15, 1998	Last day of classes
April 20, 1998	Exams begin
April 28, 1998	Last day of exams.