OUC Stat 121: Elementary Statistics
Fall 1999

Professor: Brett Goodwin **Office:** SCI room 109
Phone: 762-5445 ext. 7524 **Office hours:** to be determined
e-mail: bjgoodwi@okuc02.okanagan.bc.ca

Lectures: Mon., Tues., & Thurs. 15:30-16:30, ART 103
Labs: One of: Tues. 16:30-17:30, Wed. 8:30-9:30, 12:30-13:30, or 15:30-16:30; all in SCI 126

COURSE OBJECTIVES:

The objective of this course is to introduce you to statistical analysis of data. This course will allow you to learn some of the basic concepts and tools used in interpreting data. Statistics are all around us (in the news, in any field of research) and a good understanding of how statistics works will allow you to think more critically about the statistics you encounter throughout your life.

TEXTBOOK: (available in bookstore)

Moore, D.S. 2000. *The Basic Practice of Statistics, 2nd ed.* W.H. Freeman & Company, New York.

PREREQUISITE: Principles of Mathematics 11

COMPUTER LABORATORY SESSIONS:

The computer labs will give you the chance to analyze data and work with a statistical package (SPSS). Bring your textbook and two 3.5″ floppy disks (HD 1.44MB) to labs. There will be assignments related to the labs. Assignments are due in my office by 16:00 on the due date. Late assignments will not be accepted. Assignments must be done on a word processor. Plagiarism will not be tolerated: a first offence will earn a mark of 0 on the assignment and a second offence will earn a mark of 0 in the course.

EVALUATION:

You will be evaluated based on the assignments, four tests and a final exam. I will use the best three marks of the four tests. You should use the practice questions in your text to help prepare you for your tests and exam. I will post lists of practice questions as the term progresses. All exams and tests will be open book so that you can have access to any equations and/or statistical tables you might need.

Assignments (6)	30 %
Tests (best 3 of 4)	30 %
Final Exam	40 %

STAT 121 LECTURE SCHEDULE

Week of	Lecture Topic	Reading
Sept. 7	Introduction to Data **No computer labs**	1.1
Sept. 13	Describing Data	1.1-1.2
Sept. 20	The Normal Distribution	1.3
Sept. 27	Examining Relationships **Test 1 (Sept. 28)**	2.1-2.3
Oct. 4	More Examining Relationships	2.4-2.5
Oct. 11	Designing Surveys and Experiments	3
Oct. 18	Probability **Test 2 (Oct. 19)**	4.1-4.2, 5.1
Oct. 25	Probability and Sampling Distributions	4.3, 5.2
Nov. 1	Estimation and Confidence	6.1
Nov. 8	Tests of Significance **Test 3 (Nov. 9)**	6.2
Nov. 15	More Tests of Significance	6.3-6.4
Nov. 22	Inference for Distributions	7
Nov. 29	Inference for Proportions **Test 4 (Nov. 30)**	8
Dec. 6	Review	

This schedule is tentative and may change slightly depending upon how quickly or slowly we cover the material. I will keep you informed as things change.

STAT 121 STUDENT SURVEY

The purpose of this survey is to gather information for this course. The first section will provide me with some information about the students taking the course and the second section will provide some of the data for the computer labs. Individuals will not be identified (don't put your name on the survey). Approximate answers when necessary. You may choose not to answer any item(s).

A. The information in this section is to give me some idea about the students taking the course.

A1. Have you had any stats courses before? Y/N

A2. What is your major? (If you haven't already decided what do you think it will be? _____

A3. What are you hoping to do for a career? _____

A4. What would you like to learn from this course? _____

_____

_____

A5. What about the course concerns you the most? _____

_____

_____

B. This section will provide data for the labs

B1. Gender (M or F)? _____

B2. Age (years)? _____

B3. Smoker (S) or Nonsmoker (N)? _____

B4. Your average weekly alcohol consumption (number of drinks)? _____

B5. Amount of time spent exercising in a week (hours, to the nearest half)? _____

B6. Your weight in pounds? _____

B7. Your height in inches (1 ft = 12 inches)? _____

B8. Your current pulse rate (beats/min)? _____

B9. What type of pet do you have (none, cat, dog, fish, bird, other)? _____

B10. High school graduation average (%)? _____