

Camosun College

Department of Mathematics

Course Outline

Math 116 Elementary Statistics

This Course is designed for students in social science programs. Topics: descriptive statistics, probability, the normal distribution, estimating population means and proportions, hypothesis testing, linear correlation, regression, goodness-of-fit, and non-parametric tests, applications using SPSS. (T)

Offered:	Fall, Winter, Spring
Credit:	4
IN-CLASS WORKLOAD:	4 hours weekly plus 1 hour lab on alternate weeks
OUT-OF-CLASS WORKLOAD:	4-7 hours weekly
PREREQUISITES:	MATH 060
INSTRUCTOR:	Bill Calver (office: E248, tel. 370-3504 e-mail: calver@camosun.bc.ca)

<u>Topic</u>	<u>Sections</u>
Introduction	1.1 - 1.4
Descriptive Statistics	2.1 - 2.7
Probability	3.1 - 3.4, 4.1 - 4.4
Normal Probability Distribution	5.1 - 5.5
Estimates and Sample Sizes	6.1 - 6.4
Hypothesis Testing	7.1 - 7.5
Correlation and Regression	9.1 - 9.3
Chi-Square Tests	10.1 - 10.3
Tests Comparing Two Parameters	8.1 - 8.3, 8.6

Evaluation

40% of your final grade will be taken from a 3 hour final examination. This examination will be written between Tuesday April 13 and Wednesday April 21

40% of your final grade will be taken from a series of tests written during the semester.

Test 1: Friday, Jan 23, **Test 2:** Friday Feb 20, **Test 3:** Friday March 19

5% of your final grade will be taken from assignments handed in during the semester.

5% of your final grade will be taken from the lab exercises.

10% of your final grade will be taken from a final lab exam.

If your final exam mark is greater than your term mark, only your final exam mark will be used to compute your grade (assuming that assignments and lab exercises are completed satisfactorily – no more than 1 assignment and/or 1 lab exercise is missing).

Note - All tests must be written during the scheduled period and all assignments must be handed in on time.

Grading:	A+	95 to 100	B+	80 to 84	C+	65 to 69
	A	90 to 94	B	75 to 79	C	60 to 64
	A-	85 to 89	B-	70 to 74	D	50 to 59

Text: Triola, Goodman, Law, *Elementary Statistics* (Second Canadian edition), Addison-Wesley 2000, Inc.

MATH 116

		Winter 2004		
Jan 5			Mar 1	6.3
6	Introduction		2	6.4
7	1.1/1.2		3	Assignment 4
8	1.3		4	6.4
9	1.4		5	7.1/7.2
12	2.1/2.2		8	7.3
13	Lab 1A		9	Lab 4A
14	2.3		10	Assignment 5
15	2.4		11	7.3
16	calculator		12	7.4
19	2.5		15	7.5
20	Lab 1B		16	Lab 4B
21	Assignment 1		17	Assignment 6
22	2.6		18	10.1/10.2
23	Test 1		19	Test 3
26	2.7		22	10.3
27	Lab 2A		23	Lab 5A
28	3.1/3.2		24	9.1/9.2
29	3.3		25	9.3
30	3.3		26	
Feb 2	3.4		29	8.1/8.2
3	Lab 2B		30	Lab 5b
4	Assignment 2		31	Assignment 7
5			Apr 1	8.3
6	4.1/4.2		2	8.6
9	No lab		5	Lab
10	4.3		6	
11	4.4		7	Assignment 8
12	Reading		8	Last day of classes
13	Break		9	Good Friday
16	5.1/5.2		12	Easter Monday
17	Lab 3A		13	Exams start
18	Assignment 3		14	
19	5.3		15	
20	Test 2		16	
23	5.4		19	
24	Lab 3B		20	
25	5.5		21	Exams end
26	6.1/6.2		22	
27	6.2		23	