

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
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 - 1.5
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
Chi-Square Tests	10.1 - 10.3
Tests Comparing Two Parameters	8.1 - 8.3, 8.6
Correlation and Regression	9.1 - 9.3
Non-Parametric Tests	13.1 - 13.3

Evaluation

40% of your final grade will be taken from a 3-hour final examination. This examination will be written between Monday April 14 and Friday April 25 (posted in Feb)

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

Test 1: Friday Jan 24, **Test 2:** Friday Feb 21, **Test 3:** Friday Mar 21

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.

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

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 all assignments and lab exercises are completed satisfactorily).

Text: Triola, Goodman, Law, *Elementary Statistics* (Second Canadian edition), Addison-Wesley 1999, Inc.

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