

Camosun College
Department of Mathematics
Course Outline

MATH 100 Calculus I

This is a first course in calculus for mathematics and science students. Topics: limits, derivatives of algebraic, trigonometric, logarithmic and exponential functions, applications of differentiation including related rates, curve sketching and optimization problems, and an introduction to the indefinite and definite integral. Students will complete some assignments using Maple, a computer Algebra System.

OFFERED: Fall, Winter
 CREDIT 4
 IN-CLASS WORKLOAD: 5 lecture hrs
 OUT-OF-CLASS WORKLOAD: 5 - 10
 PREREQUISITES: A recent B in MATH 115 or Math 12
 Instructor: Bill Calver (office E248 Tel 370-3504,
 Email: calver@camosun.bc.ca
 Web page: www.camosun.bc.ca/~calver)

OUTLINE	Topic	Sections
Chapter P	Preparation for Calculus	P.1 – P.3,
Chapter 1	Limits and Their Properties	1.1 – 1.5
Chapter 2	Differentiation	2.1 – 2.6
Chapter 3	Applications of Differentiation	3.1 – 3.9
Chapter 4	Integration	4.1 – 4.6
Chapter 5	Logarithmic and Exponential Functions	5.1 – 5.6

Scientific calculators only are allowed on tests and exams; no graphing calculators or programmable calculators.

Evaluation

50% of your final grade will be taken from a 3-hour final examination.

The final exam will be written between Monday Dec 9 and Tuesday Dec 17 inclusive (posted in Oct).

30% of your final grade will be taken from a series of tests written during the semester.

Test 1 Friday Sept 27, Test 2 Friday Oct 25, Test 3 Friday Nov 22

10% of your final grade will be taken from a series of lab exercises

10% from a series of assignments

If your final exam mark is greater than your term mark, only your final exam mark will be used to compute your grade, provided you have satisfactorily completed the lab exercises and assignments.

Grading:

A+	95-100%	B+	80-84	C+	65-69	F	0-49
A	90-94	B	75-79	C	60-64		
A-	85-89	B-	70-74	D	50-59		

TEXT

Larson, Hostetler, Edwards, Calculus of a Single Variable, 7th edition, Houghton Mifflin Company