School of Arts & Science **MATHEMATICS DEPARTMENT** **MATH 109** **Finite Mathematics** **Winter 2011**

COURSE OUTLINE

The course description is online @ http://camosun.ca/learn/calendar/current/web/math.html

Ω *Please note: the College electronically stores this outline for five (5) years only.*
*It is **strongly recommended** you keep a copy of this outline with your academic records.*
You will need this outline for any future application/s for transfer credit/s to other colleges/universities.

1.   Instructor Information

(a)	Instructor:	Leah Howard		
(b)	Office Hours:	Mon-Thurs 4:30-5:30; Tues & Thurs 1:30-2:00 and 5:30-6:00		
(c)	Location:	Ewing 246		
(d)	Phone:	370-3471	Alternative Phone:	
(e)	Email:	howardl@camosun.bc.ca		
(f)	Website:	www.leahhoward.com		

Best ways to reach me: Stop by office hours, or send me an email.

2.   Intended Learning Outcomes

Upon completion of this course the student will be able to:

1. Solve linear system problems using the Gauss-Jordan Elimination Method and the Inverse Matrix Method.
2. Use the Simplex Method to solve linear programming problems, including those with mixed constraints.
3. Solve basic counting problems using permutations and combinations.
4. Perform calculations that apply the basic properties and concepts of probability, including Bayes' Rule and Markov Chains.
5. Compute and interpret descriptive statistics.
6. Perform computations using the normal and binomial distributions.
7. Determine the validity of arguments by using truth tables and by using the basic laws of logic.
8. Derive simple annuity formulas and apply them to solve amortization problems.

3.   Required Materials

(a) *Finite Mathematics* by Rolf, 7th edition

(b) Sharp EL-531W Calculator

4.   Course Content and Schedule
Sections to be Covered:

1.1-1.3	2.1-2.7	3.1-3.3	4.1, 4.2, 4.4, 4.5	5.2-5.4
6.1-6.6	7.1-7.7	8.1-8.7	10.1-10.4	

5.   Basis of Student Assessment (Weighting)

(a) 4 Assignments, 10% total
(b) 4 Tests, 10% each
(c) Final Exam, 50%

There are no make-up tests. If a test is missed, the mark will be replaced with the mark on the final exam. Final exams are scheduled during the period April 18-29.

If a student's exam mark is higher than the term mark AND the term mark is at least 50%, then the exam mark will be the final mark in the course.

Test and Homework Dates

HW 1 due Wed Jan 19	Test 1 Wed Jan 26
HW 2 due Wed Feb 9	Test 2 Wed Feb 16
HW 3 due Wed Mar 2	Test 3 Wed Mar 9
HW 4 due Wed Mar 23	Test 4 Wed Mar 30

6.   Grading System

Standard Grading System (GPA)

Percentage	Grade	Description	Grade Point Equivalency
90-100	A+		9
85-89	A		8
80-84	A-		7
77-79	B+		6
73-76	B		5
70-72	B-		4
65-69	C+		3
60-64	C		2
50-59	D	Minimum level of achievement for which credit is granted; a course with a "D" grade cannot be used as a prerequisite.	1
0-49	F	Minimum level has not been achieved.	0

Temporary Grades

Temporary grades are assigned for specific circumstances and will convert to a final grade according to the grading scheme being used in the course. See Grading Policy E-1.5 at **camosun.ca** for information on conversion to final grades, and for additional information on student record and transcript notations.

Temporary Grade	Description
I	*Incomplete*: A temporary grade assigned when the requirements of a course have not yet been completed due to hardship or extenuating circumstances, such as illness or death in the family.
IP	*In progress*: A temporary grade assigned for courses that, due to design may require a further enrollment in the same course. No more than two IP grades will be assigned for the same course. *(For these courses a final grade will be assigned to either the 3rd course attempt or at the point of course completion.)*
CW	*Compulsory Withdrawal:* A temporary grade assigned by a Dean when an instructor, after documenting the prescriptive strategies applied and consulting with peers, deems that a student is unsafe to self or others and must be removed from the lab, practicum, worksite, or field placement.

7.   Recommended Materials or Services to Assist Students to Succeed Throughout the Course

There are a variety of services available for students to assist them throughout their learning. This information is available in the College calendar, at Student Services, or the College web site at camosun.ca.

STUDENT CONDUCT POLICY

There is a Student Conduct Policy **which includes plagiarism**. It is the student's responsibility to become familiar with the content of this policy. The policy is available in each School Administration Office, at Student Services, and the College web site in the Policy Section.

MATH LAB   Students can visit the Math Lab (Help Centre) in Ewing 224 or Ewing 342 to get free tutoring from an experienced tutor. Hours are posted on the door.