CAMOSUN COLLEGE
School of Arts & Science
Department of Mathematics & Statistics

MATH-109-003
Finite Mathematics
Fall 2018

COURSE OUTLINE

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

✷ *Please note: This outline will not be kept indefinitely. It is recommended students keep this outline for their records, especially to assist in transfer credit to post-secondary institutions.*

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1. Instructor Information

(a) Instructor	Leah Howard		
(b) Office hours	Mon, Wed, Fri 11:30-1:15 and Tues, Thurs 12:30-1:15		
(c) Location	CBA 151		
(d) Phone	250-370-4490	**Alternative:**	
(e) E-mail	HowardL@camosun.ca		
(f) Website	www.leahhoward.com		

2. Intended Learning Outcomes

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

1. Solve counting problems using sets and/or the multiplication principle, and recognize and solve problems involving permutations and combinations.
2. Apply the basic properties and concepts of probability to solve problems from fields such as medicine and quality control. Determine the probability distributions for random variables and calculate expected values. Where appropriate, evaluate probabilities using the binomial distribution. Explore systems evolving from one state to another using Markov chains.
3. Solve linear systems of equations using techniques, including Gauss-Jordan elimination and inverse matrices.
4. Solve linear programming problems using a graphical approach.
5. Derive simple annuity formulas and use them to solve amortization problems.
6. Translate statements into symbolic form and vice versa. Construct truth tables for propositions, including implications. Use truth tables to verify equivalencies.

3. Required Materials

1) TEXTBOOK: Finite Mathematics by Goldstein. Available in the bookstore.

2) CALCULATOR: Sharp EL-531 This is the only calculator permitted on tests and the final exam.

4. Basis of Student Assessment (Weighting)

7% - Quizzes
7% - Assignments
36% - Tests (3 tests at 12% each)
50% - Final Exam

Quizzes: There will be short weekly quizzes at the start of class most Tuesdays. The quizzes are open-book. There are no make-up quizzes.

Assignments: There will be three assignments, each due before a test. Assignments are due at the start of class on the due date. Late assignments are not accepted.

Tests: If a student misses a test for any reason then the weighting of that test will shift to the final exam. There are no make-up tests.

Final Exam: A comprehensive, 3-hour final exam will take place during the final exam period. You must write the final exam at the scheduled time and place as per Camosun College's policy on final examinations.

TENTATIVE DATES

Assignment One	**Thurs Sept 20**
Test One	**Thurs Sept 27**
Assignment Two	**Thurs Oct 18**
Test Two	**Thurs Oct 25**
Assignment Three	**Thurs Nov 15**
Test Three	**Thurs Nov 22**

5.Grading System

[X] Standard Grading System (GPA)

[ ] Competency Based Grading System

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		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 at http://camosun.ca/about/policies/index.html 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 are designed to have an anticipated enrollment that extends beyond one term. No more than two IP grades will be assigned for the same course.
CW	*Compulsory Withdrawal*: A temporary grade assigned by a Dean when an instructor, after documenting the prescriptive strategies applied and consulting with peers, deems a student is unsafe to self or others and must be removed from the course.

6. Recommended Materials to Assist Students to Succeed Throughout the Course

Math Lab: There is an instructional assistant in TEC 142 who can answer questions about the content of the course. Math Lab hours are posted on the door of TEC 142.

7. College Supports, Services and Policies

Immediate, Urgent, or Emergency Support
If you or someone you know requires immediate, urgent, or emergency support (e.g. illness, injury, thoughts of suicide, sexual assault, etc.), **SEEK HELP**. Resource contacts @ http://camosun.ca/about/mental-health/emergency.html or http://camosun.ca/services/sexual-violence/get-support.html#urgent

College Services
Camosun offers a variety of health and academic support services, including counselling, dental, disability resource centre, help centre, learning skills, sexual violence support & education, library, and writing centre. For more information on each of these services, visit the **STUDENT SERVICES** link on the College website at http://camosun.ca/

College Policies
Camosun strives to provide clear, transparent, and easily accessible policies that exemplify the college's commitment to life-changing learning. It is the student's responsibility to become familiar with the content of College policies. Policies are available on the College website at http://camosun.ca/about/policies/. Education and academic policies include, but are not limited to, Academic Progress, Admission, Course Withdrawals, Standards for Awarding Credentials, Involuntary Health and Safety Leave of Absence, Prior Learning Assessment, Medical/Compassionate Withdrawal, Sexual Violence and Misconduct, Student Ancillary Fees, Student Appeals, Student Conduct, and Student Penalties and Fines.