	School of Arts & Science ***MATHEMATICS DEPARTMENT*** **MATH 109** **Finite Mathematics** **Spring 2015**	

The Approved Course Description is available on the web at
http://camosun.ca/learn/calendar/current/web/math.html

1.   Instructor Information

(a)	Instructor:	Laura Shepherd
(b)	Location:	E258
(c)	Phone:	250-370-3499
(d)	Email:	shepherd@camosun.bc.ca
(e)	Webpage:	https://sites.google.com/site/lmds5637/m101
(g)	Office Hours:	See Hours Posted on Office Door

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.   Solve basic counting problems using Venn Diagrams, and permutations and combinations.
3.   Perform calculations that apply the basic properties and concepts of probability, including Bayes' Rule and Markov Chains.
4.   Compute and interpret descriptive statistics.
5.   Perform computations using the binomial distribution.
6.   Derive simple annuity formulas and apply them to solve amortization problems.

3.   Required Materials

Textbook*: **_Finite Mathematics and its Applications_**, custom edition Camosun College

4.   Course Content and Schedule

Content: This course provides an introductory survey to material that is of particular interest to business, biology and social science students. Topics include a review of linear equations; sets and counting, including permutations and combinations; probability, including Bayes' Theorem, random variables, expected value and the binomial distribution; matrix operations; solving systems of linear equations using a variety of methods, including Gauss-Jordan elimination and inverse matrices; linear programming using a geometric approach; Markov chains; annuities and amortization of loans; and basic logic, including implication and equivalence.

Calculator Policy: The **<u>only</u>** calculator allowed for use on tests and the final exam for **<u>all Math courses</u>** is the Sharp EL-531X, available at the College Bookstore.

Resources : Math Lab (Ewing 224). This is a drop-in center where you can get help with your math homework. The hours will be posted on the door. I will post regular office hours, check my door for the times.

5. Basis of Student Assessment (Weighting)

Evaluation: Your final grade will be determined on the basis of Term Work worth 50% and a comprehensive Final Exam worth 50%. The final exam is 3 hours long and will be written during the week following the end of classes, the time and place will be scheduled by the College.

Tests: There will be a total of three in class test which will count for 45% of your term work. <u>There are no make up tests</u> so if you must miss a test for any reason please see me as soon as possible so that I can give you a copy of the missed test to help you study for the final exam.

In Class Problems: Once a week, Wednesdays, during the first 10 minutes of class, there will be questions and/or formulas assigned based on the previous days material. Please see homework set for exact questions/formulas. These in class questions will count for 5% of your grade. There will be a total of 7 in class questions of which each student may drop his or her lowest score.

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

LEARNING SUPPORT AND SERVICES FOR STUDENTS

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 on the College web site in the Policy Section.