Instructor: Pooja Gupta	**E-mail:** guptap@camosun.ca
Class Hours: Online	**Office Hours**: By Arrangement

Calendar Description

This course is the first half of Math 11 and provides the algebra skills required for statistics, criminal justice and some business programs. Topics include: linear equations and inequalities, rearranging formulas, linear equations in two variables, systems of linear equations, integer and rational exponents, polynomials and factoring.

Prerequisite(s): "C" in Principles of Math 10, or Foundations of Math & Pre-calculus 10, or Pre-calculus 11, or Foundations of Math 11, or MATH 053, or MATH 057; or "C-" in Principles of Math 11; or assessment.
http://camosun.ca/learn/calendar/current/web/math.html

Exit Grade:

A grade of C+ (65%) or better in Math 072 is necessary to continue into Math 073 (Advanced Mathematics 2), Math 116 (Elementary Statistics) as well as certain programs such as Criminal Justice, Business Administration, Golf Management, and Hotel and Restaurant Management.

Required Materials

(a) Reliable access to the internet
(b) Registration with MyMathLab: http://www.pearsonmylabandmastering.com/northamerica/mathxl/students/get-registered/index.html
(c) Course ID: **gupta31158**
(d) scientific calculator (Sharp EL531 is the recommended calculator, and is good through MATH 073)

Course Content and Schedule

The course is designed to be completed in one term. However, it can be completed sooner, depending on a number of factors including the students' beginning level of math skills, motivation, learning rate, and how much time they can actually study **(average 15-20 hours per week to complete in 4 months)**.

If you do not understand something seek help right away. In addition to online, resources include your family and friends, your instructor, and /or the Math Help Centres.
Contact your instructor to get permission to write the Final exam. The Final Exam must be written with an invigilator.

Grade Calculation: *Five Unit Exams 50%
**Final Exam 50%

*As this is a mastery-based course, the goal for each test is 65% or better. If you receive between 60 & 70%, you have the option of rewriting once. If you scored less than 60% then you will need to rewrite the test before you continue. Note: Tests can only be rewritten once for a total of two times. The lowest test mark will be dropped when calculating the test average.

** If your term average is **at least 50%** and all your assignments are complete and if your final exam mark is higher than your term average, then your final course grade may be based 100% on your final exam mark.

Access Math Lab and Testing Centres:

Ewing 342 & 224 (LANS) and Tec142 (INT): These drop-in centres are available for you to work on math homework and to seek **free** help from the Instructional Assistant. See the hours posted on the math lab doors or go to Camosun College website.
Study Tips: It is recommended that approximately 3-6 hours per week be spent studying and completing homework for this course outside of class time. Find a study buddy to discuss math problems and **use the math labs**.
Tests can be written in Ewing 342 or at Interurban in CBA109. Contact your instructor for permission to write with your preferred location.

Check the college website (http://camosun.ca/services/help-centres/math.html) for details and hours.

Important Dates:
See the college website at http://camosun.ca/events/important-dates.html for important dates including the last day to withdraw to avoid an F on your transcript.

Course Objectives:
The objectives of the course are:

1. To learn the basic algebra skills necessary to be successful both in your chosen field of study and in future math courses. This involves learning the vocabulary, notation, rules, and techniques of intermediate algebra, as well as solving applied problems.

2. To be able to solve problems involving simple calculations without the aid of a calculator.

3. To learn to write mathematics correctly and also to be able to write about the mathematics that you are learning.

4. To be able to talk about the mathematics you are learning.

Grading System

Percentage	Grade	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
<50%	F	0
In Progress	IP	N/A

Math 072 Course Content	
Unit R – Review of Basic Algebra	**(Suggested)Due Date**
Pre-test	
R.1 The set of real numbers	
R.2 Operations with real numbers	
R.3 Exponential notation and order of operations	
R.4 Introduction to algebraic expressions	
R.5 Equivalent algebraic expressions	
R.6 Simplifying algebraic expressions	
R.7 Properties of exponents and scientific notation	
Post-Test (timed-3hrs)	
Unit R Final Test (timed-3hrs)	**May 15, 2017**
Unit 1 – Solving Linear Equations & Inequalities	
Pre-test	
1.1 Solving equations	
1.2 Formulas and applications	
1.3a Applications and problem solving	
1.4 Sets, inequalities, and interval notation	
1.5 Intersections, unions, and compound inequalities	
1.6a-d Absolute-value equations	

Post-Test (timed-3hrs)		
Unit 1 Final Test (timed-3hrs)		**June 05, 2017**
Unit 2 – Graphs, Functions, and Applications		
Pre-test		
2.1	Graphs of equations	
2.2	Functions and graphs	
2.3	Finding domain and range	
2.4	Linear functions: graphs and slope	
2.5	More on graphing linear equations	
2.6	Finding equations of lines; applications	
Post-Test (timed-3hrs)		
Unit 2 Final Test (timed-3hrs)		**June 30, 2017**
Unit 3 – Systems of Equations		
Pre-test		
3.1	Systems of equations in two variables	
3.2	Solving by substitution	
3.3	Solving by elimination	
3.4a	Solving applied problems: two equations	
3.7a,b	Inequalities in two variables	
Post-Test (timed-3hrs)		
Unit 3 Final Test (timed-3hrs)		**July 15, 2017**
Unit 4 – Polynomials & Polynomial Functions		
Pre-test		
4.1	Introduction to polynomials and polynomial functions	
4.2	Multiplication of polynomials	
4.3	Introduction to factoring	
4.4	Factoring trinomials: $x^2 + bx + c$	
4.5	Factoring trinomials: $ax^2 + bx + c, a \neq 1$	
4.6	Special factoring	
4.7	Factoring: a general strategy	
Post-Test (timed-3hrs)		
Unit 4 Final Test (timed-3hrs)		**August 06, 2017**
MATH 072 Final Pre-Test		**August 08,2017**
MATH 072 Final Post-Test		**August 12, 2017**
MATH 072 FINAL EXAM		**August 14, 2017 (date may change)**

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, Registrar's Office or the College web site at:
http://www.camosun.ca

STUDENT CONDUCT POLICY

There is a Student Conduct Policy. It is the student's responsibility to become familiar with the content of this policy. The policy is available in each School Administration Office, Registration, and on the College web site in the Policy Section, or the College web site at:
http://camosun.ca/about/policies/education-academic/e-2-student-services-&-support/e-2.5.pdf

STUDENT GRADING POLICY

A new student grading policy is in effect for students in the School of Access. This information is available in the College Calendar, Registrar's Office or the College web site at:
http://camosun.ca/about/policies/education-academic/e-1-programming-&-instruction/e-1.5.pdf

ACADEMIC PROGRESS POLICY

There is an Academic Progress Policy designed to enhance a learner's likelihood of success. Students should become familiar with the content of this policy. The policy is available in each School Administration Office, Registration, and on the College web site in the Policy Section or the College web site at:
http://camosun.ca/about/policies/education-academic/e-1-programming-&-instruction/e-1.1.pdf