



Instructor: Pooja Gupta	E-mail: guptap@camo	osun.ca	Phone #: 250.370.4915
Class Hours: Tuesday, Thurs	day 1:00 – 3:50 pm	Office	Hours: T/Th 4:00 – 5:00 pm

#### **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) Textbook: Intermediate Algebra, 10<sup>th</sup>, 11<sup>th</sup>, or 12<sup>th</sup> edition, Marvin Bittinger. NOTE: Same textbook for 073.
- (b) Scientific calculator: The Sharp EL 531W model will be the only calculator allowed for this course and most math courses at Camosun.
- (c) NOTE: Calculators will not be allowed on Tests 1 or 3.

### **Course Content and Schedule** Self-paced Instructions

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 Tutor Center.

Contact your instructor to get permission to write the unit exam. These exams will be written face-to-face.

Your final grade is based the unit exams and the final exam.





Grade Calculation: \*Five Unit Exams 50%

\*\*Final Exam 50% or 100%

\*\* 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 will be based 100% on your final exam mark.

## **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.

Percentage	Grade	Grade Point Equivalency
90-100%	A+	9
85-89%	А	8
80-84%	A-	7
77-79%	B+	6
73-76%	В	5
70-72%	В-	4
65-69%	C+	3
60-64%	С	2
50-59%	D	1
<50%	F	0
In Progress	IP	N/A

#### **Grading System**





# Math 072 Course Content

Unit 1 – Review of Basic Algebra				
	(NO CALCULATOR)			
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			
Summary & Review/Chapter Test				
	Unit 1 final test			
Unit	2 – Solving Linear Equations			
	and Inequalities			
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-	Absolute-value equations			
d				
Su	ummary & review/Chapter Test			
Unit 2 final test				
Unit 3 – Graphs, Functions, and				
Applications (NO CALCULATOR)				
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			
Su	ummary & review/Chapter Test		
	Unit 3 final test		
Unit 4 – Systems of Equations			
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,	Inequalities in two variables		
b			
Su	Immary & review/Chapter Test		
	Unit 4 final test		
Unit 5 – Polynomials and Polynomial			
	Functions		
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≠1		
4.6	Special factoring		
4.7	Factoring: a general strategy		
Su	Immary & review/Chapter Test		
Unit 5 final test			
MATH 072 review			
	MATH 072 final exam		





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