



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

### **Calendar Description**

This course is the second half of Math 11 and is an excellent refresher for those who wish to upgrade before Math 12 or Precalculus. Topics include: rational and radical expressions and equations, quadratic equations and functions, right triangle trigonometry, trigonometric functions of any angle and the Sine and Cosine Laws.

**Prerequisite(s):** "C+" in MATH 072; or "C" in Principles of Math 11, or Pre-calculus 11, or Foundations of Math 12; or assessment. http://camosun.ca/learn/calendar/current/web/math.html

**Exit Grade:** B+ (77%) or better is necessary to continue into MATH 115. C+ (65%) or better is necessary to continue into MATH 092, 105, 107 or 109. C (60%) or better is necessary to continue into MATH 112.

### **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 from MATH 072.
- (b) Scientific calculator: The Sharp EL 531W model will be the only calculator allowed for this course and most math courses at Camosun.

### 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%





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

### **Important Dates:**

See the college website at <a href="http://camosun.ca/learn/calendar/current/pdf/events.pdf">http://camosun.ca/learn/calendar/current/pdf/events.pdf</a> for important dates including the last day to withdraw to avoid an F on your transcript.

**Grading System** 

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

For information on Camosun College's grading policy, see the webpage <a href="http://www.camosun.bc.ca/policies/Education-Academic/E-1-Programming-&-Instruction/E-1.5.pdf">http://www.camosun.bc.ca/policies/Education-Academic/E-1-Programming-&-Instruction/E-1.5.pdf</a>

### **Academic Progress**

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. <a href="http://camosun.bc.ca/policies/Education-Academic/E-1-Programming-&-Instruction/E-1.1.pdf">http://camosun.bc.ca/policies/Education-Academic/E-1-Programming-&-Instruction/E-1.1.pdf</a>





### MATH 073 course content

	Unit R - Review of Basic Algebra		
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 R Exam (optional)			
Unit 1 - 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: x2 bx c		
4.5	Factoring trinomials: ax2 bx c, a ≠ 1		
4.6	Special factoring		
4.7	Factoring: a general strategy		
4.8	Applications of polynomial equations		
	and functions		
Ç	Summary & Review/Chapter Test		
	Unit 1 Exam		
Unit 2	2 - Rational Expressions, Equations, &		
	Functions		
5.1	Rational expressions and functions:		
	multiplying, dividing, and simplifying		
5.2	LCMs, LCDs, addition, and		
	subtraction		
5.3	Division of polynomials		
5.4	Complex rational expressions		
5.5	Solving rational equations		
5.6			
	section b)		
5.7	Formulas and applications		

5.8	Variation and applications			
Summary & Review/Chapter Test				
Unit 2 final test				
Unit 3 - Radical Expressions, Equations, &				
	Functions			
6.1	Radical expressions and functions			
6.2	Rational numbers as exponents			
6.3	Simplifying radical expressions			
6.4	Addition, subtraction, and more			
	multiplication			
6.5	More on division of radical			
	expressions			
6.6	Solving radical equations			
6.7	Applications involving powers and			
	roots			
6.8	The complex numbers			
	Summary & Review/Chapter Test			
	Unit 3 Exam			
	Unit 4 - Quadratic Equations and Functions			
7.1	The basics of solving quadratic			
	equations			
7.2	The quadratic formula			
7.3	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
	equations			
7.4	More on quadratic equations			
7.5	Graphing f(x) a(x h)2 k			
7.6	Graphing f(x) ax2 bx c			
7.7a	Mathematical modeling with			
	quadratic functions			
	Summary & Review/Chapter Test			
Unit 4 Exam				
	Unit 5 - Trigonometry			
5.1	Trigonometric functions of acute			
	angles			
5.2	Applications of right triangles			
5.3	Trigonometric functions of any angle			
7.1	The law of sines			



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7.2	The law of cosines	MATH 073 review
Unit 5 Exam		MATH 073 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:

 $\underline{http://camosun.ca/about/policies/education-academic/e-1-programming-\&-instruction/e-1.5.pdf}$ 

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