

# CAMOSUN COLLEGE School of Access Community Learning Partnerships Department

MATH 057-S17 Math for Electrical Trades

## **COURSE OUTLINE WINTER 2018**

The Approved Course Description is available on the College website <a href="http://camosun.ca/learn/programs/academic-upgrading/what-youll-learn/upgrading.html#tabs-intermediate">http://camosun.ca/learn/programs/academic-upgrading/what-youll-learn/upgrading.html#tabs-intermediate</a> a

#### 1. Instructor Information and Schedule:

Name: Pooja Gupta Email: quptap@camosun.ca

Phone: <u>250-370-4481</u> Office: <u>CBA 149</u>

## My class schedule this term:

	Monday	Tuesday	Wednesday	Thursday	Friday
9:30 – 12:20	In class Saanich Adult Education Centre	In class Songhees Wellness Centre	In class Saanich Adult Education Centre	In class Songhees Wellness Centre	Online class (9:30 – 1:50)
12:30 – 2:20	Online class/ Office time Meetings by appointments only		Online class/ Office time Meetings by appointments only		Department Meetings

## **Important Dates this Winter term:**

January 8 – Term Starts

February 12 – Family Day (College closed)

February 13 to 16 - Reading break (College closed)

February 13 – Foundation Bursaries Deadline to apply for winter 2018

February 23 - T2202A Education Tax Receipts available

March 30 - Good Friday (College closed)

April 2 - Easter Monday (College closed)

April 13 - Last day of instruction

April 16 to 20 - Exams

April 20 - Term Ends

**Note:** - Please seek help as soon as possible so that I can help you to be successful this term. As emails are accessible from any location, I prefer **emails** to phone calls.

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## 2. Intended Learning Outcomes

At the end of the course, students will be able to:

- 1. Use mathematics at an ABE Intermediate level with competence
- 2. Demonstrate knowledge and skills in using the language, principles, and operations of introductory algebra and trigonometry
- 3. Apply a variety of strategies in solving math-related problems
- 4. Apply knowledge and skills in introductory algebra and trigonometry to solve problems
- Use knowledge of introductory algebra and trigonometry as a basis for further study in the Electrical Foundation program, Advanced-level mathematics, and other courses and programs

#### 3. Required Materials

- a) Textbook: *Developmental Mathematics*, Custom Edition for Camosun College, Marvin Bittinger/Judith Beecher (Content taken from the 9<sup>th</sup> Edition of *Developmental Mathematics* by the same authors)
- b) Module: Trigonometry (ABE Intermediate Mathematics module 14), British Columbia
- c) Module: Vectors (Camosun College)
- d) Scientific calculator (Sharp EL-531X or EL-531W for next level MATH 072 or 135)

#### **Supplementary Materials**

- e) Selected open source math videos: <a href="https://sites.camosun.ca/acf-math/math-057/">https://sites.camosun.ca/acf-math/math-057/</a>
- f) Student's Solutions Manual, Judith Penna (for sale in the bookstore; available for reference in the classroom)
- g) Instructor's Solutions Manual, Judith Penna (for reference in the classroom)
- h) website www.mymathlab.com (online text, tutorials, videos, and testing)

## 4. Course Instructions and Content

The course completion time will vary for each student, depending on a number of factors, including your current level of math skills, motivation, learning rate, and how much time you have to study math, either at the college or at home. Students generally need to spend 5–15 hours of study time per week to complete each math course within 4 months.

- (a) before starting unit 1, students must pass a competency test to demonstrate that they can add, subtract, multiply, and divide whole numbers, fractions, and decimals <u>without the use of a calculator</u> if necessary, use the Arithmetic Review booklet to review these operations before writing the competency test
- (b) for each section of the 057 text listed in the table below, read the explanations, study the Examples, do the Margin Exercises, and then work through and check all or at least some of the more difficult odd-numbered problems in the Exercise Set
- (c) note that unit 4 includes text chapter 10, 11.1, & 11.2, and a supplement on exponents
- (d) to prepare for the test for each unit, do the Summary and Review Exercises and write the Chapter Test at the end of the chapter, and correct all of your errors
- (e) review your test results with the instructor, and proceed to the next unit if you score 75% or better, or rewrite the unit test if you score less than 75% (all test scores count)

9 <sup>th</sup> & 8 <sup>th</sup> ed.	MATH 057 course content	
	Unit R - Arithmetic Review (no calculator)	
R.1	Place value	
R.2	Comparing numbers	

R.3	Rounding numbers			
R.4	Adding and subtracting whole numbers and decimals			
R.5	Multiplying whole numbers and decimals			
R.6	Powers – repeated multiplication			
R.7	Dividing whole numbers and decimals			
R.8	Order of operations			
R.9	Operations with fractions			
	•			
R.10	Equivalent fractions			
R.11	Adding and subtracting fractions			
R.12	Multiplying fractions			
R.13	Dividing fractions			
R.14	Converting fractions and decimals			
R.15	Estimation			
	Practice Test			
	Unit R test (no calculator)			
	Children Control Control Control			
	Unit 1 – Real Numbers and Algebraic Expressions	(20 days)	+	
7 4		(20 days)	+	
7.1	Introduction to algebra		+	
7.2	The real numbers		1	
7.3	Addition of real numbers			
7.4	Subtraction of real numbers			
7.5	Multiplication of real numbers			
7.6	Division of real numbers			
7.7	Properties of real numbers			
7.8	Simplifying expressions; order of operations			
	Summary and review			
	Chapter test			
	Unit 1 test			
	Office 1 cost			
oth e	MATH 057, pource content			
9 <sup>th</sup> &	MATH 057 course content			
9 <sup>th</sup> & 8 <sup>th</sup> ed		(20 days)		
8 <sup>th</sup> ed	Unit 2 – Solving Equations and Inequalities	(30 days)		
8 <sup>th</sup> ed 8.1	Unit 2 – Solving Equations and Inequalities Solving equations: the addition principle	(30 days)		
8 <sup>th</sup> ed 8.1 8.2	Unit 2 – Solving Equations and Inequalities  Solving equations: the addition principle  Solving equations: the multiplication principle	(30 days)		
8th ed 8.1 8.2 8.3	Unit 2 – Solving Equations and Inequalities  Solving equations: the addition principle  Solving equations: the multiplication principle  Using the principles together	(30 days)		
8 <sup>th</sup> ed 8.1 8.2	Unit 2 – Solving Equations and Inequalities  Solving equations: the addition principle  Solving equations: the multiplication principle	(30 days)		
8th ed 8.1 8.2 8.3	Unit 2 – Solving Equations and Inequalities  Solving equations: the addition principle  Solving equations: the multiplication principle  Using the principles together	(30 days)		
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Unit 5 test	5.7	Solving triangles				
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Unit 6 - Vectors (supplementary module) (10 days)		Unit 5 test				
Unit 6 - Vectors (supplementary module) (10 days)						
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p 10 Problem Sets	p 10	Problem Sets				
Unit 6 test day 130		Unit 6 test day 130				

# 5. Basis of Student Assessment (Weighting)

- (a) **Tests** 75% of the course grade is based on the average of **all** unit final test scores for units 1–6 (including both passing and failing test scores)
- (b) **Exams** 25% of the course grade is based on the average of **all** final exam scores (including both passing and failing exam scores)

**Note:** Students with a record of low attendance OR lack of progress may be restricted from re-registering in COMMUNITY Learning Partnerships Department courses.

## 6. Grading System

A+	90-100%	B+	77–79%	C+	65-69%
Α	85-89%	В	73–76%	С	60-64%
Α-	80-84%	B-	70-72%	ΙP	in progress

## 7. Learning Support and Services for Students

#### **ACADEMIC UPGRADING HELP CENTRE (CBA 109 or Ewing 342)**

http://camosun.ca/services/help-centres/math.html
Help with coursework, reference & learning materials library,
computers & printers, quiet testing & study areas

There are many other Camosun services available to help you succeed in and out of the classroom, including education planning, learning and personal support, campus life, work and housing, and getting around. This information is available at Registration or the College web site <a href="http://camosun.ca/services/">http://camosun.ca/services/</a>

#### 8. College Policies

#### **ACADEMIC PROGRESS**

The purpose of this policy is to enhance a learner's likelihood of success, and to encourage the learner to use College resources effectively.

http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.1.pdf

#### **GRADING**

The purpose of this policy is to ensure that grading and promotion are consistent and fair. http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.5.pdf

#### STUDENT CONDUCT

The purpose of this policy is to provide clear expectations of appropriate academic and non-academic student conduct, and to establish processes for resolution of conduct issues or the imposition of sanctions for inappropriate conduct.

http://camosun.ca/about/policies/education-academic/e-2-student-services-and-support/e-2.5.pdf