

# CAMOSUN COLLEGE School of Access Academic and Career Foundations Department

### MATH 057 Intermediate Math for Trades

# **COURSE OUTLINE**

The Approved Course Description is available on the College website http://www.camosun.ca/learn/calendar/current/

#### 1. Instructor Information

Instructor: Alison Bowe Voicemail: 370-4911 Text only: 250.881.0264

Office: CBA 150 e-mail: bowe@camosun.bc.ca

## January-April 2015

Time	Monday	Tuesday	Wednesday	Thursday	Friday
8:30 - 10:30				Chairs Meeting	
10:30 - 11:30		Help Centre CBA 109		Chairs Meeting	
11:30 - Noon	Lunch	Lunch	Lunch	Chairs Meeting	
Noon - 12:30	Help Centre CBA 109	Help Centre CBA 109	Help Centre CBA 109	Lunch	
12:30- 3:30	In Class S05 CBA 117	In Class S04 CBA 117	In Class S05 CBA 117	In Class S04 CBA 117	Dept Meeting
3:30 - 5:00	Office Hours	Office Hours	Office Hours	Office Hours	

## 2. Intended Learning Outcomes

(complete ABE Intermediate Mathematics learning outcomes at ABE Articulation Handbook website <a href="http://www.aved.gov.bc.ca/abe/docs/handbook.pdf">http://www.aved.gov.bc.ca/abe/docs/handbook.pdf</a>)

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
- 5. 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

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## 3. Required Materials

- (a) textbook: Developmental Mathematics, 6<sup>th</sup>/7<sup>th</sup>/8<sup>th</sup> edition, Marvin Bittinger/Judith Beecher
- (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) Student's Solutions Manual, Judith Penna (for sale in the bookstore; available for reference in the classroom)
- (f) Instructor's Solutions Manual, Judith Penna (for reference in the classroom)
- (g) website www.mymathlab.com (online text, tutorials, videos, and testing)

## 4. Course Schedule, Content and Instructions

#### Schedule:

#### 2015W Semester classes run from January 5 - April 10, 2015

Other important dates: February 9 Holiday, College Closed

February 12-13 Reading Break
March 9 Withdrawal Deadline
April 3 & 6 Holiday, College Closed
April 10 Last day of classes

#### Instructions:

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, 11.5, and a supplement on exponents
- (d) to prepare for the final 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 final test results with the instructor, and proceed to the next unit if you score 75% or better, or rewrite the final test if you score less than 75% (all test scores count)

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8th ed'n	7th ed'n	MATH 057 course content	
ean	ean	Unit R - Arithmetic Review (no calculator)	
R.1	R.1	Place value	
R.2	R.2	. 10.00	
R.3	R.3	Comparing numbers Rounding numbers	
R.4	R.4	Adding and subtracting whole numbers and decimals	
R.5	R.5	Multiplying whole numbers and decimals	
R.6	R.6	Dividing whole numbers and decimals	
R.7	R.7	Order of operations	
R.8	R.8	Order of operations Operations with fractions	
R.9	R.9	· ·	
R.10	R.10	Equivalent fractions	
		Adding and subtracting fractions	
R.11 R.12	R.11 R.12	Multiplying fractions	
		Dividing fractions	
R.13	R.13	Converting fractions and decimals	
R.14	R.14	Estimation	
		Practice Test	
		Unit R final test (no calculator)	
		Unit 1 - Real Numbers and Algebraic Expressions (20 days)	
7.1	7.1	Introduction to algebra	
7.2	7.2	The real numbers	
7.3	7.3	Addition of real numbers	
7.4	7.4	Subtraction of real numbers	
7.5	7.5	Multiplication of real numbers	
7.6	7.6	Division of real numbers	
7.7	7.7	Properties of real numbers	
7.8	7.8	Simplifying expressions; order of operations	
		Summary and review	
		Chapter test	
		Unit 1 final test	
		Unit 2 - Solving Equations and Inequalities (30 days)	
8.1	8.1	Solving equations: the addition principle	
8.2	8.2	Solving equations: the multiplication principle	
8.3	8.3	Using the principles together	
8.4	8.4	Formulas	
8.5	8.5	Applications of percent	
8.6	8.6	Applications and problem solving	
8.7	8.7	Solving inequalities	
8.8	8.8	Applications and problem solving with inequalities	
		Summary and review	
		Chapter test	
		Unit 2 final test	

	8th ed'n	7th ed'n	MATH 057 course content		
8.1         8.1 Solving equations: the addition principle           8.2         8.2 Solving equations: the multiplication principle           8.3         8.3 Using the principles together           8.5         8.5 Applications of percent           8.6         8.6 Applications and problem solving           8.7         8.7 Solving inequalities           8.8         8.8 Applications and problem solving with inequalities           8.8         Applications and problem solving with inequalities           8.9         Summary and review           Chapter test         Unit 3 - Graphs of Linear Equations           9.1         9.1 Graphs and applications of linear equations           9.2         9.2 More with graphing and intercepts           9.3         9.3 Slope and applications           9.4 9.4 Equations of lines         9.5 Graphing using the slope and y-intercept           9.5 Graphing using the slope and y-intercept         9.5 Unit 3 final test           10.1* Integers as exponents         10.1* Unit 4 - Polynomials: Operations and Factoring (28 days)           10.2* Exponents and scientific notation         * after 10.2, complete supplementary exercises on exponents #1-25           10.3 Introduction to polynomials         More with fare test unit introduction of polynomials           10.4 Introduction of polynomials in several variables         10.5 Multiplication			Unit 2 – Solving Equations and Inequalities	(30 days)	
8.3         8.4         8.4         Formulas           8.5         8.5         Applications of percent           8.6         8.6         Applications and problem solving           8.7         Solving inequalities           8.8         8.8         Applications and problem solving with inequalities           8.8         8.8         Applications and problem solving with inequalities           9.1         Summary and review           9.1         Chapter test           9.1         9.1         Graphs of Linear Equations           9.2         9.2         More with graphing and intercepts           9.3         9.3         Siope and applications           9.4         9.4         Equations of lines           9.5         9.5         Graphing using the slope and y-intercept           Summary and review         Summary and review           Chapter test         Unit 3 final test           Unit 3 final test         Unit 4 - Polynomials: Operations and Factoring (28 days)           10.1*         10.1*         10.1*           10.2*         Exponents and Scientific notation           *after 10.2, complete supplementary exercises on exponents #1-25           10.3         10.3         Introduction to polynomials	8.1	8.1		, ,	
8.4         8.5         8.5         Applications of percent           8.6         8.6         Applications and problem solving           8.7         8.7         Solving inequalities           8.8         8.8         Applications and problem solving with inequalities           8.8         8.8         Applications and problem solving with inequalities           8.9         Summary and review           Chapter test         Unit 2 final test           Unit 2 final test         Unit 2 final test           Unit 3 - Graphs of Linear Equations         (22 days)           9.1         9.1         Graphs and applications of linear equations           9.2         9.2         More with graphing and intercepts           9.3         9.3         Slope and applications           9.4         9.4         Equations of lines           9.5         9.5         Graphing using the slope and y-intercept           Summary and review         Chapter test           Unit 4 - Polynomials: Operations and Factoring         (28 days)           10.1*         10.1*         Integers as exponents           10.2*         10.2*         Exponents and scientific notation           *after 10.2, complete supplementary exercises on exponents ±1-25           10.3	8.2	8.2	Solving equations: the multiplication principle		
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8.6	8.5	8.5	Applications of percent		
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Summary and review	8.7	8.7			
Chapter test	8.8	8.8	Applications and problem solving with inequalities		
Unit 2 final test			Summary and review		
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9.1         Graphs and applications of linear equations           9.2         9.2         More with graphing and intercepts           9.3         9.3         Slope and applications           9.4         9.4         Equations of lines           9.5         9.5         Graphing using the slope and y-intercept           Summary and review         Image: Chapter test           Unit 3 final test         Unit 4 - Polynomials: Operations and Factoring         (28 days)           10.1*         10.1*         Integers as exponents         10.1*           10.2*         10.2*         Exponents and scientific notation         28 days)           10.2*         10.2*         Exponents and scientific notation         29 days)           10.3*         10.3         Introduction to polynomials         10 days)           10.4         10.4         Addition and subtraction of polynomials         10 days)           10.5         Multiplication of polynomials         10 days)           10.6         Special products         10 days)           10.7         10.7         Operations with polynomials in several variables           10.8         10.8a         Division of polynomials by a monomial           11.2.ed         11.2         Factoring differences of squares      <			Unit 2 final test		
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10.3 10.3 Introduction to polynomials 10.4 10.4 Addition and subtraction of polynomials 10.5 10.5 Multiplication of polynomials 10.6 10.6 Special products 10.7 10.7 Operations with polynomials in several variables 10.8a 10.8a Division of polynomials by a monomial 11.1ab 11.1ab Introduction to common factoring 11.2 11.2 Factoring differences of squares 11.5cd 11.5cd Factoring differences of squares  Summary and review Chapter test Unit 4 final test MATH 053 review and final exam day 105  Unit 5 - Trigonometry (supplementary module) (15 days)  5.1 5.1 The right triangle 5.2 5.2 Angles and sides 5.3 5.3 The Pythagorean theorem (more in 7e text p 1059, 8e text p 1087) 5.4 5.4 The tangent ratio 5.5 5.5 Using the tangent ratio 5.6 5.6 The sine and cosine ratios 5.7 5.7 Solving triangles Practice test Unit 6 - Vectors (supplementary module) (10 days)  P 10 P 10 Problem Sets	10.2	10.2		ononto #1_25	
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10.7 Operations with polynomials in several variables  10.8a 10.8a Division of polynomials by a monomial  11.1ab 11.1ab Introduction to common factoring  11.2 11.2 Factoring trinomials of the type $x^2 + bx + c$ 11.5cd 11.5cd Factoring differences of squares  Summary and review  Chapter test  Unit 4 final test  MATH 053 review and final exam day 105  Unit 5 - Trigonometry (supplementary module) (15 days)  5.1 5.1 The right triangle  5.2 5.2 Angles and sides  5.3 5.3 The Pythagorean theorem (more in 7e text p 1059, 8e text p 1087)  5.4 5.4 The tangent ratio  5.5 5.5 Using the tangent ratio  5.6 5.6 The sine and cosine ratios  5.7 5.7 Solving triangles  Practice test  Unit 5 final test  Unit 6 - Vectors (supplementary module) (10 days)  p 10 Problem Sets					
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11.2					
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Chapter test			<u> </u>		
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5.2       Angles and sides         5.3       5.3       The Pythagorean theorem (more in 7e text p 1059, 8e text p 1087)         5.4       5.4       The tangent ratio         5.5       5.5       Using the tangent ratio         5.6       5.6       The sine and cosine ratios         5.7       5.7       Solving triangles         Practice test       Unit 5 final test         Unit 5 final test       (10 days)         p 10       P 10       Problem Sets				(15 days)	
5.3       The Pythagorean theorem (more in 7e text p 1059, 8e text p 1087)         5.4       5.4         5.5       The tangent ratio         5.5       Using the tangent ratio         5.6       5.6         5.7       5.7         Solving triangles         Practice test         Unit 5 final test         Unit 6 - Vectors (supplementary module)         p 10       Problem Sets					
5.4       5.4       The tangent ratio         5.5       5.5       Using the tangent ratio         5.6       5.6       The sine and cosine ratios         5.7       5.7       Solving triangles         Practice test       Unit 5 final test         Unit 6 - Vectors (supplementary module)       (10 days)         p 10       p 10       Problem Sets					
5.5       Using the tangent ratio         5.6       5.6         5.7       5.7         Solving triangles         Practice test         Unit 5 final test         Unit 6 - Vectors (supplementary module)         p 10       p 10         Problem Sets			,	text p 1087)	
5.6       5.6       The sine and cosine ratios         5.7       5.7       Solving triangles         Practice test         Unit 5 final test         Unit 6 - Vectors (supplementary module)         p 10       p 10       Problem Sets					
5.7       Solving triangles         Practice test       Image: Control of the con					
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Unit 5 final test  Unit 6 - Vectors (supplementary module) (10 days)  p 10 p 10 Problem Sets	5.7	5.7			
Unit 6 - Vectors (supplementary module) (10 days) p 10 p 10 Problem Sets					
p 10  p 10  Problem Sets			Unit 5 final test		
p 10  p 10  Problem Sets			Unit 6 - Vectors (supplementary module)	(10 days)	
	p 10	p 10	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	(10 days)	
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# 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 poor attendance OR poor progress may be restricted from re-registering in Academic and Career Foundations 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)**

Help with coursework, reference & learning materials library, computers & printer, 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-&-instruction/e-1.1.pdf

#### **GRADING**

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

#### STUDENT CONDUCT

The purpose of this policy is to provide clear expectations of appropriate academic and nonacademic 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-&-support/e-2.5.pdf