

# CAMOSUN COLLEGE School of Access Academic and Career Foundations Department

MATH 057 Intermediate Math for Trades

Fall 2015(September 8, 2015 to December 18, 2015)

**S06** 

### **COURSE OUTLINE**

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

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# 2. Intended Learning Outcomes

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

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

### 3. Required Materials

- (a) textbook: Developmental Mathematics, 6th/7th/8th 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)

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#### **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 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 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)

8th	7th	MATH 057 course content					
ed'n	ed'n						
		Unit R - Arithmetic Review (no calculator)					
R.1	R.1	Place value					
R.2	R.2	Comparing numbers					
R.3	R.3	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	Operations with fractions					
R.9	R.9	Equivalent fractions					
R.10	R.10	Adding and subtracting fractions					
R.11	R.11	Multiplying fractions					
R.12	R.12	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					

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	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           8.4         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           8.8         8.8 Applications and problem solving with inequalities           9.1         9.1 Inequalities           9.2 Summary and review         Chapter test           9.1         9.1 Graphs 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           9.5         9.5 Graphing using the slope and y-intercept           9.1         9.1 Integers as exponents           9.2         9.2 Integers as exponents           9.3         9.3 Slope and applications           9.4         9.4 Equations of ines           9.5         0.5 Exporents and scientific notation           10.1 Integers			Unit 2 – Solving Equations and Inequalities	(30 days)	
8.3	8.1	8.1		, ,	
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         Solving inequalities           8.8         8.8         Applications and problem solving with inequalities           Summary and review         Summary and review           Chapter 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         Equations of lines           9.5         9.5         Graphing using the slope and y-intercept           Summary and review         Chapter test           Unit 3 final test         Unit 3 final test           10.1*         10.1*         10.1* a lintegers as exponents           10.2*         10.2* by a lintercept supplementary exercises on exponents #1-25           10.3         10.3         Introduction to polynomials           10.4         10.4         10.4         Addition and subtra	8.2	8.2	Solving equations: the multiplication principle		
8.4	8.3	8.3			
8.6	8.4	8.4			
8.6         Applications and problem solving           8.7         8.7         Solving inequalities           8.8         Applications and problem solving with inequalities           Summary and review         Chapter test           Unit 2 final test         Unit 2 final test           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 3 final test         Unit 3 final test           10.2*         10.2*         Exponents and scientific notation           10.2*         10.2*         Exponents and scientific notation           10.3         10.3         Introduction to polynomials           10.4         10.4         Addition and subtraction of polynomials           10.5         Multiplication of polynomials           10.6         10.6         Special products           10.8         10.8         10.8           10.8         10.8         10.8           10.8	8.5	8.5	Applications of percent		
8.7 Solving inequalities  8.8 Applications and problem solving with inequalities  Summary and review  Chapter test  Unit 2 final 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  Summary and review  Chapter test  Unit 4 - Polynomials: Operations and Factoring  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 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  Unit 4 final test  Unit 4 final test  ### Trigonometry (supplementary module)  Unit 4 final test  ### Unit 5 Introduction to common factoring  ### Unit 5 Introduction from the type x² + bx + c	8.6	8.6			
Summary and review   Chapter test   Unit 2 final test	8.7	8.7			
Chapter test   Unit 2 final test	8.8	8.8	Applications and problem solving with inequalities		
Unit 3 - Graphs of Linear Equations			Summary and review		
9.1   9.1   Graphs 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   9.5   Summary and review   Chapter test   Unit 3 final test   Unit 4 - Polynomials: Operations and Factoring   (28 days)   10.1*   Integers as exponents   28 to provide the first of the firs			Chapter test		
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         Introduction to polynomials           10.4         10.4         Addition and subtraction of polynomials           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           11.1.2b         11.1.2b         Introduction to common factoring           11.2 critical from graph in the stream of the str			Unit 2 final test		
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         Introduction to polynomials           10.4         10.4         Addition and subtraction of polynomials           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           11.1.2b         11.1.2b         Introduction to common factoring           11.2 critical from graph in the stream of the str					
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 3 final test         Unit 4 - Polynomials: Operations and Factoring         (28 days)           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           10.4         40.4         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           10.8         10.8a         Division of polynomials by a monomial           11.1.ab         Introduction to common factoring           11.2         11.2         Factoring trinomials of the type x² + bx + c           11.5cd         11.5cd         Factoring trinomials of the type x² + bx + c           15.1         5.1         5.1			Unit 3 – Graphs of Linear Equations	(22 days)	
9.3         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* Integers as exponents           10.2* 10.2* Exponents and scientific notation		9.1	Graphs and applications of linear equations		
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9.5         Graphing using the slope and y-intercept           Summary and review         Chapter test           Unit 3 final test         Unit 4 - Polynomials: Operations and Factoring           10.1*         10.1* Integers as exponents           10.2*         10.2* Exponents and scientific notation		9.3			
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5.3					
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)           p 10         Problem Sets				ext p 1087)	
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				.c.n. p 1001)	
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			· ·		
5.7         Solving triangles           Practice test         Unit 5 final test           Unit 6 - Vectors (supplementary module)         (10 days)           p 10         Problem Sets					
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Unit 6 - Vectors (supplementary module) (10 days) p 10 p 10 Problem Sets					
p 10  Problem Sets					
p 10  Problem Sets			Unit 6 - Vectors (supplementary module)	(10 days)	
	p 10	p 10		· /	
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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%
A-	80-84%	B-	70–72%	ΙP	in progress

## 7. Learning Support and Services for Students

#### **ACADEMIC UPGRADING HELP CENTRE (E 342)**

Help with coursework, reference & learning materials library, computer & 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. http://camosun.ca/about/policies/education-academic/e-1-programming-&-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-&-support/e-2.5.pdf