

CAMOSUN COLLEGE School of Access Academic and Career Foundations Department

MATH 057-S03 Intermediate Math for Trades
Spring 2012

COURSE OUTLINE

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

 Ω Please note: This outline will not be kept indefinitely. It is recommended students keep this outline for their records.

1. Instructor Information

Instructor: Alison Bowe Phone: 370-4911

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

OFFICE HOURS BY APPOINTMENT

May - June 2012 Schedule

Time	Monday	Tuesday	Wednesday	Thursday	Friday
10:00 - 11:30		Office Hours		Office Hours	
12:00 – 12:30	Help Centre CBA 109	Help Centre CBA 109	Help Centre CBA 109	Help Centre CBA 109	
12:30 – 3:20	Math S01 CBA 117	Math S03 CBA 117	Math S01 CBA 117	Math S03 CBA 117	Office Hours
3:30 – 4:00	Office Hours	Office Hours	Office Hours	Office Hours	
4:30 – 5:00	Office Hours		Office Hours		
5:00 – 7:50	Math S04 CBA 117		Math S04 CBA 117		

2. Intended Learning Outcomes

(complete ABE Intermediate Mathematics learning outcomes at ABE Articulation Handbook website http://www.aved.gov.bc.ca/abe/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 ELT program, Advanced-level mathematics, and other courses and programs

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3. Required Materials

- (a) textbook: Developmental Mathematics, 7th or 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 EL531W for MATH 072)

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) video CDs (cover each section of the text, for viewing at the college or at home)
- (h) website www.mymathlab.com (online text, tutorials, videos, and testing)

4. Course Content and Schedule

Classes run from May 7, 2011 to June 22, 2011.

The College will be closed on Monday, May 21, for Victoria Day.

Self-paced 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, 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)

6th ed'n	7th MATH 057 course content ed'n		video CD	
		Unit R - Arithmetic Review (no calculator)		
R.2	R.2	Fraction Notation		
R.3	R.3	Decimal Notation		
		Arithmetic Review test (no calculator)		
		Unit 1 - Real Numbers and Algebraic Expressions (for 4-month completion: 20 days)		
7.1	7.1	Introduction to algebra	7.1	
7.2	7.2	The real numbers	7.2	
7.3	7.3	Addition of real numbers	7.3	
7.4	7.4	Subtraction of real numbers	7.4	
7.5	7.5	Multiplication of real numbers	7.5	
7.6	7.6	Division of real numbers	7.6	
7.7	7.7	Properties of real numbers	7.7	
7.8	7.8	Simplifying expressions; order of operations	7.8	
		Summary and review		
		Chapter test		

Unit 1 final test

	6th ed'n	7th ed'n				
8.1 8.1 Solving equations: the addition principle 8.1 8.2 8.2 Solving equations: the multiplication principle 8.3 8.3 8.3 Using the principles together 8.3 8.4 8.4 Formulas 8.4 8.5 8.5 Applications of percent 8.5 8.6 8.6 Applications and problem solving 8.6 8.7 8.7 Solving inequalities 8.7 8.8 8.8 Applications and problem solving with inequalities 8.8 Summary and review Chapter test Unit 2 final test Unit 2 final test Unit 3 Graphs of Linear Equations (22 days) 9.1 9.1 Graphs of Linear Equations 9.2 9.3 9.1 Graphs and applications 9.2 9.3 9.2 More with graphing and intercepts 9.3 9.4 9.3 Slope and applications 9.4 9.4 9.3 Slope and applications 9.4 10.1* Interpret set Unit 4 - Polynomials: Operations and Factoring (28 days)			Unit 2 – Solving Equations and Inequalities (30 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%
A-	80-84%	B-	70–72%	ΙP	in progress

7. 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, Registration, or on the College website http://camosun.ca/services/

ACADEMIC CONDUCT POLICY

It is the student's responsibility to become familiar with the content of the Academic Conduct Policy. The policy is available in each School Administration Office, Registration, and on the College website http://camosun.ca/about/policies/education-academic/e-2-student-services-&-support/e-2.5.pdf

ACADEMIC PROGRESS POLICY

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