

CAMOSUN COLLEGE School of Access Academic and Career Foundations Department

MATH 057 S03 Intermediate Math for Trades
Fall 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: Nicolas Mai Phone: 370-3848

Office: CBA 149 e-mail: mai@camosun.ca

Sept. – I	Dec. 2012	Schedul	e Nicolas	Mai Ph:	370 – 3848
Office: Interurban CBA 149					
Time	Monday	Tuesday	Wednesday	Thursday	Friday
8:30	Math S02	Math	Math S02	Math	Office
11:20	CBA 117	S03 CBA 117	CBA 117	S03 CBA 117	CBA 149
11:30- 12:20	lunch	lunch	lunch	lunch	lunch
	Help		Help Centre		Staff
12:30-	Centre	Math	-	Math	Meeting
3:20		S03	Office	S03	
	Office CBA 149	CBA 117	CBA 149	CBA 117	
3:30-	Office	Office	Office		
4:30	CBA 149	CBA 149	CBA 149	Office	
				CBA 149	
e-mail: mai@camosun.bc.ca					

OFFICE HOURS BY APPOINTMENT

2. Intended Learning Outcomes

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

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

- 1. use mathematics at an ABE Fundamental level with competence
- 2. demonstrate knowledge and skills in using the principles and operations of basic arithmetic, measurement, and data analysis
- 3. apply a variety of strategies in solving math-related problems
- 4. apply knowledge and skills in basic arithmetic, data analysis, measurement, and geometry to solve problems related to employment, consumerism, personal finance, and other aspects of daily life
- 5. use knowledge and skills in arithmetic, data analysis, measurement, and geometry as a basis for further study in algebra, geometry, trades math, and other programs

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3. Required Materials

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

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 ed'n	MATH 057 course content	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	MATH 057 course content	video CD
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 3 Included an applications (22 days) 9.1 9.1 Graphs of Linear Equations (22 days) 9.1 9.1 9.1 Graphs and applications 9.2 9.3 9.1 9.1 Graphs and applications 9.2 9.3 9.2 9.1 Graphs and applications 9.2 9.3 9.4 9.3 Slope and applications 9.4 9.3 Slope and applications 9.4 10.1* Integer sa exponents 10.1* Integers as exponents 10.1* Integers as exponents 10.1* Integers as exponents 10.1 10.2* 10.2* Exponents and scientific notation			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:

- 1. Effective September 2005, <u>returning</u> self-paced MATH 057 students must start at the beginning of the course (no credit will be given for partial completion of ABMA 050 before September 2004).
- 2. 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://www.camosun.bc.ca/learning-skills/index.html

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://www.camosun.bc.ca/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.bc.ca/policies/Education-Academic/E-1-Programming-&-Instruction/E-1.1.pdf