

CAMOSUN COLLEGE School of Access Academic and Career Foundations Department

MATH 053 Intermediate Mathematics 2

COURSE OUTLINE

The Approved Course Description is available on the College website http://camosun.ca/learn/programs/academic-upgrading/what-youll-learn/upgrading.html#tabs-intermediate_a

1. Instructor Information

Instructor: Pam Johnson **Phone**: 370-3850

Office: CBA 148 e-mail: johnsonp@camosun.bc.ca

2. Intended Learning Outcomes

Complete ABE Intermediate Mathematics learning outcomes at ABE Articulation Handbook website http://www2.gov.bc.ca/assets/gov/education/post-secondary-education/adult-education/2016-17 abe guide.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
- 3. Apply a variety of strategies in solving math-related problems
- 4. Apply knowledge and skills in introductory algebra to solve problems
- 5. Use knowledge of introductory algebra as a basis for further study in Advanced-level algebra, math for technology, and other courses and programs

Sept 2017 MATH 053 Course Outline Page 1 of 4

3. Required Materials

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

Supplementary Materials

- (d) Selected open source math videos: https://sites.camosun.ca/acf-math/mth-053/
- (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 053 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)

	MATH 053 course content						
Unit R - Arithmetic Review (no calculator) [This is a Separate Booklet]							
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)						

Unit 1 - Real Numbers and Algebraic Expressions (20 days) 7.1 Introduction to algebra 7.2 The real numbers 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 Unit 2 - Solving Equations and Inequalities (30 days) 8.1 Solving equations: the addition principle 8.2 Solving equations: the addition principle 8.3 Using the principles together 8.4 Formulas 8.5 Applications of percent 8.6 Applications and problem solving 8.7 Solving inequalities Summary and review Chapter test Unit 2 test Unit 3 - Graphs of Linear Equations 9.1 Graphs and applications of linear equations 9.2 More with graphing and intercepts 9.3 Slope and applications 9.4 Equations of lines 9.5 Graphing using the slope and y-intercept Unit 3 test Unit 4 - Polynomials: Operations and Factoring (28 days) 10.1* Integers as exponents 10.2* Exponents and scientific notation * after 10.2, complete supplementary exercises on exponents #1-25 10.3 Introduction to polynomials 10.6 Special products 10.7 Operations with polynomials in several variables 10.8 Division of polynomials of the type x² + bx + c
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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 ### **Colving Equations and Inequalities** ### **Colving Equations: the addition principle** ### **Solving equations: the addition principle** ### **Solving equations: the addition principle** ### **Solving equations: the multiplication principle** ### **Solving equations: the multiplication principle** ### **Solving equations to percent** ### **Solving inequalities** ### **Solving
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11.2 Factoring trinomials of the type $x^2 + bx + c$
3
11.5cd Factoring differences of squares
Summary and review
Chapter test
Unit 4 test
MATH 053 review

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 1–4 (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 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 (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 http://camosun.ca/services/

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

Sept 2017 MATH 053 Course Outline Page 4 of 4