



Camosun College campuses are located on the traditional territories of the Lkwungen and WSÁNEĆ peoples. We acknowledge their welcome and graciousness to the students who seek knowledge here.

Math 053 Intermediate Mathematics 2
Fall 2019

COURSE OUTLINE

The calendar description is available on the web @ <http://camosun.ca/learn/calendar/current/web/math.html>

Ω Please note: This outline will not be kept indefinitely. It is recommended students keep this outline for their records, especially to assist in transfer credit to post-secondary institutions.

1. Instructor Information

(a) Instructor	Wendy Seward	
(b) Office hours	By appointment	
(c) Location	SAEC	
(d) Phone		Alternative:
(e) E-mail	sewardw@camosun.ca	
(f) Website	http://camosun.ca/	

2. Intended Learning Outcomes

Complete ABE Intermediate Mathematics learning outcomes at ABE Articulation Handbook website https://www2.gov.bc.ca/assets/gov/education/post-secondary-education/adult-education/abe_guide.pdf

On completion of the course, students will be able to:

- use mathematics at an ABE Intermediate level with competence
- demonstrate knowledge and skills in using the language, principles, and operations of introductory algebra
- apply a variety of strategies in solving math-related problems
- apply knowledge and skills in introductory algebra to solve problems
- use knowledge of introductory algebra as a basis for further study in Advanced-level algebra, math for technology, and other courses and programs

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) Scientific calculator: The Sharp EL 531W model (or similar) will be the only calculator allowed for this course.

4. Course Content and Schedule

The course is designed to be completed in one term. However, it can be completed sooner, depending on a number of factors including your beginning level of math-skills, motivation, learning rate, and how much time you can actually study (average 15 to 20 hours per week to complete in 4 months).

If you do not understand something, seek help right away. Resources include your instructor, your family and friends and /or the Math Help Centres.

*Math Help: You can get free face-to-face tutoring from our instructional assistants in the Math Help Centres/Labs in E342 (Lansdowne) or CBA 109 (Interurban). Hours are posted on the doors and on the website <http://camosun.ca/services/help-centres/>.

Math 053 course content				
Section	Topic	Suggested Time (Days)	Suggested Date	Suggested Week
Unit R	Arithmetic Review [This is a Separate Booklet]			
	Pre-test		Sep 3	
R.1	Place value	.5	Sep 3	1
R.2	Comparing numbers	.5	Sep 3	1
R.3	Rounding numbers	1	Sep 4	1
R.4	Adding and subtracting whole numbers and decimals	1	Sep 5	1
R.5	Multiplying whole numbers and decimals	1	Sep 6	1
R.6	Powers – repeated multiplication	1	Sep 7	1
R.7	Dividing whole numbers and decimals	1	Sep 8	1
R.8	Order of operations	1	Sep 9	2
R.9	Operations with fractions	1	Sep 10	2
R.10	Equivalent fractions	1	Sep 11	2
R.11	Adding and subtracting fractions	2	Sep 12, 13	2
R.12	Multiplying fractions	1	Sep 14	2
R.13	Dividing fractions	1	Sep 15	2
R.14	Converting fractions and decimals	2	Sep 16, 17	3
R.15	Estimation	1	Sep 18	3
	Post-test			
	Unit R test		Sep 19 - 21	3
Unit 1 : Chapter 7	Introduction to Real Numbers and Algebraic Expressions			
	Pre-test		Sep 22	
7.1	Introduction to algebra	2	Sep 22, 23	3, 4
7.2	The real numbers	2	Sep 24, 25	4
7.3	Addition of real numbers	1	Sep 26	4
7.4	Subtraction of real numbers	1	Sep 27	4
7.5	Multiplication of real numbers	1	Sep 28	4
7.6	Division of real numbers	2	Sep 29	4
7.7	Properties of real numbers	2	Sep 30, Oct 1	5
7.8	Simplifying expressions; order of operations	2	Oct 2, 3	5
	Post-Test (timed 3hrs.)			
	Unit 1 Final Test (timed 3hrs.)		Oct 4 - 6	5
Unit 2 : Chapter 8	Solving Equations and Inequalities			
	Pre-test		Oct 7	
8.1	Solving equations: the addition principle	2	Oct 7, 8	6
8.2	Solving equations: the multiplication principle	2	Oct 9, 10	6
8.3	Using the principles together	2	Oct 11, 12	6
8.4	Formulas	3	Oct 13, 14, 15	6, 7
8.5	Applications of percent	2	Oct 16, 17	7
8.6	Applications and problem solving	2	Oct 18, 19	7
8.7	Solving inequalities	2	Oct 20, 21	7, 8
8.8	Applications and problem solving with inequalities	2	Oct 22, 23	8
	Post-Test (timed 3hrs.)			
	Unit 2 Final Test (timed 3hrs.)		Oct 24 - 26	8
Unit 3: Chapter 9	Graph of Linear Equations			
	Pre-test		Oct 27	
9.1	Graphs and applications of linear equations	2	Oct 27, 28	8, 9
9.2	More with graphing and intercepts	2	Oct 29, 30	9
9.3	Slope and applications	2	Oct 31, Nov 1	9
9.4	Equations of lines	2	Nov 2, 3	9
9.5	Graphing using the slope and y-intercept	1	Nov 4	10
	Post-Test (timed 3hrs.)			
	Unit 3 Final Test (timed 3hrs.)		Nov 5 - 7	10

Math 053 course content				
Section	Topic	Suggested Time (Days)	Suggested Date	Suggested Week
Unit 4: Chapter 10/11	Polynomials: Operations & Factoring			
	Pre-test		Nov 8	
10.1*	Integers as exponents	2	Nov 8, 9	10
10.2*	Exponents and scientific notation	3	Nov 10 - 12	10, 11
	* after 10.2, complete supplementary exercises on exponents #1-25	2	Nov 13, 14	11
10.3	Introduction to polynomials	1	Nov 15	11
10.4	Addition and subtraction of polynomials	2	Nov 16, 17	11
10.5	Multiplication of polynomials	3	Nov 18 - 20	12
10.6	Special products	3	Nov 21 - 23	12
10.7	Operations with polynomials in several variables	3	Nov 24 - 26	12, 13
10.8a	Division of polynomials by a monomial	2	Nov 27, 28	13
11.1ab	Introduction to common factoring	3	Nov 29 – Dec 1	13
11.2	Factoring trinomials of the type $x^2 + bx + c$	2	Dec 2, 3	14
11.5cd	Factoring differences of squares	2	Dec 4, 5	14
	Post-Test (timed 3hrs.)			
	Unit 4 Final Test (timed 3hrs.)		Dec 6 - 8	14
	MATH 053 Final Pre-test			
	MATH 053 Final Post-test			
	MATH 053 Final Exam (timed 3hrs.)		Dec 9 - 12	

5. Basis of Student Assessment (Weighting)

Five Unit Exams worth 75% | Final Exam worth 25% (You **must** pass the final to pass the course; you must write and **pass** all the unit tests before writing the final.)

Note: Students with a record of poor attendance OR poor progress may be restricted from re-registering in Community Learning Partnerships Department courses.

6. Grading System: Standard Grading System <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.5.pdf>

A+	90–100%	B+	77–79%	C+	65–69%	D	50-59%
A	85–89%	B	73–76%	C	60–64%	F	40-49%
A–	80–84%	B–	70–72%	IP	in progress		

Temporary Grades

Temporary grades are assigned for specific circumstances and will convert to a final grade according to the grading scheme being used in the course. See Grading Policy at <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.5.pdf> for information on conversion to final grades, and for additional information on student record and transcript notations.

7. Recommended Resources to Assist Students to Succeed Throughout the Course

Ask your course instructor FIRST and then you could also go to:
ACADEMIC UPGRADING HELP CENTRES (CBA 109 and E342)
<http://camosun.ca/services/help-centres/math.html>

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 Supports, Services and Policies



Immediate, Urgent, or Emergency Support

If you or someone you know requires immediate, urgent, or emergency support (e.g. illness, injury, thoughts of suicide, sexual assault, etc.), **SEEK HELP**. Resource contacts @ <http://camosun.ca/about/mental-health/emergency.html> or <http://camosun.ca/services/sexual-violence/get-support.html#urgent>

College Services

Camosun offers a variety of health and academic support services, including counselling, dental, disability resource centre, help centre, learning skills, sexual violence support & education, library, and writing centre. For more information on each of these services, visit the **STUDENT SERVICES** link on the College website at <http://camosun.ca/>

College Policies

Camosun strives to provide clear, transparent, and easily accessible policies that exemplify the college's commitment to life-changing learning. It is the student's responsibility to become familiar with the content of College policies. Policies are available on the College website at <http://camosun.ca/about/policies/>. Education and academic policies include, but are not limited to, Academic Progress, Admission, Course Withdrawals, Standards for Awarding Credentials, Involuntary Health and Safety Leave of Absence, Prior Learning Assessment, Medical/Compassionate Withdrawal, Sexual Violence and Misconduct, Student Ancillary Fees, Student Appeals, Student Conduct, and Student Penalties and Fines.