CAMOSUN COLLEGE
School of Access
Community Learning Partnerships Department

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

Math 053 Intermediate Mathematics 2
Summer 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	At Interurban campus	
(d) Phone	**Alternative:**	
(e) E-mail	sewardw@camosun.ca	
(f) Website		

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
(c) Reliable access to the internet
(d) Registration with MyMathLab: http://www.pearsonmylabandmastering.com/northamerica/mathxl/students/get-registered/index.html . Course ID will be available at start of term.

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).
Contact your instructor to get permission to write the Final exam after you have completed all Unit tests. The Final Exam must be written with an invigilator.

If you do not understand something, seek help right away. In addition to online, resources include your family and friends, your instructor, 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			
R.1	Place value	.5	May 6	1
R.2	Comparing numbers	.5	May 6	1
R.3	Rounding numbers	1	May 7	1
R.4	Adding and subtracting whole numbers and decimals	1	May 8	1
R.5	Multiplying whole numbers and decimals	1	May 9	1
R.6	Powers – repeated multiplication	1	May 10	1
R.7	Dividing whole numbers and decimals	1	May 11	1
R.8	Order of operations	1	May 12	1
R.9	Operations with fractions	1	May 13	2
R.10	Equivalent fractions	1	May 14	2
R.11	Adding and subtracting fractions	2	May 15, 16	2
R.12	Multiplying fractions	1	May 17	2
R.13	Dividing fractions	1	May 18	2
R.14	Converting fractions and decimals	2	May 19, 20	2, 3
R.15	Estimation	1	May 21	3
	Post-test			
	Unit R test		May 22 – 24	3
Unit 1 : Chapter 7	**Introduction to Real Numbers** **and Algebraic Expressions**			
	Pre-test			
7.1	Introduction to algebra	2	May 25, 26	3
7.2	The real numbers	2	May 27, 28	4
7.3	Addition of real numbers	1	May 29	4
7.4	Subtraction of real numbers	1	May 30	4
7.5	Multiplication of real numbers	1	May 31	4
7.6	Division of real numbers	2	Jun 1, 2	4
7.7	Properties of real numbers	2	Jun 3, 4	5
7.8	Simplifying expressions; order of operations	2	Jun 5, 6	5
	Post-Test (timed 3hrs.)			
	Unit 1 Final Test *(timed 3hrs.)*		Jun 7 – 9	5
Unit 2 : Chapter 8	**Solving Equations and Inequalities**			
	Pre-test			
8.1	Solving equations: the addition principle	2	Jun 10, 11	6
8.2	Solving equations: the multiplication principle	2	Jun 12, 13	6
8.3	Using the principles together	2	Jun 14, 15	6
8.4	Formulas	3	Jun 16, 17, 18	6, 7
8.5	Applications of percent	2	Jun 19, 20	7
8.6	Applications and problem solving	2	Jun 21, 22	7
8.7	Solving inequalities	2	Jun 23, 24	7, 8
8.8	Applications and problem solving with inequalities	2	Jun 25, 26	8
	Post-Test (timed 3hrs.)			
	Unit 2 Final Test *(timed 3hrs.)*		Jun 27 – 29	8
Unit 3: Chapter 9	**Graph of Linear Equations**			
	Pre-test			
9.1	Graphs and applications of linear equations	2	Jun 30, Jul 1	9
9.2	More with graphing and intercepts	2	Jul 2, 3	9
9.3	Slope and applications	2	Jul 4, 5	9
9.4	Equations of lines	2	Jul 6, 7	9
9.5	Graphing using the slope and y-intercept	1	Jul 8	10
	Post-Test (timed 3hrs.)			
	Unit 3 Final Test *(timed 3hrs.)*		Jul 9 – 11	10

Math 053 course content					
Section	Topic	Suggested Time (Days)	Suggested Date	Suggested Week
Unit 4: Chapter 10/11	Polynomials: Operations & Factoring			
	Pre-test			
10.1*	Integers as exponents	2	Jul 12, 13	10
10.2*	Exponents and scientific notation	3	Jul 14 – 16	10, 11
	* after 10.2, complete supplementary exercises on exponents #1−25	2	Jul 17, 18	11
10.3	Introduction to polynomials	1	Jul 19	11
10.4	Addition and subtraction of polynomials	2	Jul 20, 21	11
10.5	Multiplication of polynomials	3	Jul 22 – 24	12
10.6	Special products	3	Jul 25 – 27	12
10.7	Operations with polynomials in several variables	3	Jul 28 – 30	12, 13
10.8a	Division of polynomials by a monomial	2	Jul 31, Aug 1	13
11.1ab	Introduction to common factoring	3	Aug 2 – 4	13
11.2	Factoring trinomials of the type $x^2 + bx + c$	2	Aug 5, 6	14
11.5cd	Factoring differences of squares	2	Aug 7, 8	14
	Post-Test (timed 3hrs.)			
	Unit 4 Final Test *(timed 3hrs.)*		Aug 9 – 11	14
	MATH 053 Final Pre-test			
	MATH 053 Final Post-test			
	MATH 053 Final Exam *(timed 3hrs.)*		Aug 13 - 15	

5. Basis of Student Assessment (Weighting)

Five Unit Exams worth 50% | Final Exam worth 50% (You **must** pass final to pass the course. You must write all the unit tests before writing the final exam.)

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.