



Math 053
Intermediate Mathematics 2
Fall 2018

COURSE OUTLINE

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

⚡ 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	Pooja Gupta
(b) Office hours	Variable, see the attached information sheet
(c) Location	Songhees Wellness Centre / CBA 149
(d) Phone	250-370-3848 Alternative:
(e) E-mail	guptap@camosun.ca (Email is preferred over phone)
(f) Website	http://camosun.ca/

2. Intended Learning Outcomes

Complete ABE Fundamental 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 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 the students' beginning level of math-skills, motivation, learning rate, and how much time they 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. 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 (no calculator) [This is a Separate Booklet]			
	Pre-test			
R.1	Place value	.5	Sep 4	1
R.2	Comparing numbers	.5	Sep 4	1
R.3	Rounding numbers	1	Sep 5	1
R.4	Adding and subtracting whole numbers and decimals	1	Sep 6	1
R.5	Multiplying whole numbers and decimals	1	Sep 7	1
R.6	Powers – repeated multiplication	1	Sep 8	1
R.7	Dividing whole numbers and decimals	1	Sep 9	1
R.8	Order of operations	1	Sep 10	2
R.9	Operations with fractions	1	Sep 11	2
R.10	Equivalent fractions	1	Sep 12	2
R.11	Adding and subtracting fractions	2	Sep 13, 14	2
R.12	Multiplying fractions	1	Sep 15	2
R.13	Dividing fractions	1	Sep 16	2
R.14	Converting fractions and decimals	2	Sep 17, 18	3
R.15	Estimation	1	Sep 19	3
	Post-test			
	Unit R test (no calculator)		Sep 20 – 22	3
Unit 1 : Chapter 7	Introduction to Real Numbers and Algebraic Expressions			
	Pre-test			
7.1	Introduction to algebra	2	Sep 23, 24	3.4
7.2	The real numbers	2	Sep 25, 26	4
7.3	Addition of real numbers	1	Sep 27	4
7.4	Subtraction of real numbers	1	Sep 28	4
7.5	Multiplication of real numbers	1	Sep 29	4
7.6	Division of real numbers	2	Sep 30, Oct 1	4, 5
7.7	Properties of real numbers	2	Oct 2, 3	5
7.8	Simplifying expressions; order of operations	2	Oct 4, 5	5
	Post-Test (timed 3hrs.)			
	Unit 1 Final Test (timed 3hrs.)		Oct 6 – 8	5, 6
Unit 2 : Chapter 8	Solving Equations and Inequalities			
	Pre-test			
8.1	Solving equations: the addition principle	2	Oct 9, 10	6
8.2	Solving equations: the multiplication principle	2	Oct 11, 12	6
8.3	Using the principles together	2	Oct 13, 14	6
8.4	Formulas	3	Oct 15, 16, 17	7
8.5	Applications of percent	2	Oct 18, 19	7
8.6	Applications and problem solving	2	Oct 20, 21	7
8.7	Solving inequalities	2	Oct 22, 23	8
8.8	Applications and problem solving with inequalities	2	Oct 24, 25	8
	Post-Test (timed 3hrs.)			
	Unit 2 Final Test (timed 3hrs.)		Oct 26 – 28	8
Unit 3: Chapter 9	Graph of Linear Equations			
	Pre-test			
9.1	Graphs and applications of linear equations	2	Oct 29, 30	9
9.2	More with graphing and intercepts	2	Oct 31, Nov 1	9
9.3	Slope and applications	2	Nov 2, 3	9
9.4	Equations of lines	2	Nov 4, 5	9, 10
9.5	Graphing using the slope and y-intercept	1	Nov 6	10
	Post-Test (timed 3hrs.)			
	Unit 3 Final Test (timed 3hrs.)		Nov 7 – 9	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	Nov 10, 11	10
10.2*	Exponents and scientific notation	3	Nov 12 – 14	11
	* after 10.2, complete supplementary exercises on exponents #1–25	2	Nov 15, 16	11
10.3	Introduction to polynomials	1	Nov 17	11
10.4	Addition and subtraction of polynomials	2	Nov 18, 19	11, 12
10.5	Multiplication of polynomials	3	Nov 20, 21, 22	12
10.6	Special products	3	Nov 23, 24, 25	12
10.7	Operations with polynomials in several variables	3	Nov 26, 27, 28	13
10.8a	Division of polynomials by a monomial	2	Nov 29, 30	13
11.1ab	Introduction to common factoring	3	Dec 1, 2, 3	13, 14
11.2	Factoring trinomials of the type $x^2 + bx + c$	2	Dec 4, 5	14
11.5cd	Factoring differences of squares	2	Dec 6, 7	14
	Post-Test (timed 3hrs.)			
	Unit 4 Final Test (timed 3hrs.)		Dec 8 – 10	14, 15
	MATH 053 Final Pre-test			
	MATH 053 Final Post-test			
	MATH 053 Final Exam (timed 3hrs.)		Dec 10 – 14	

5. Basis of Student Assessment (Weighting)

Five Unit Exams worth 75% | Final Exam worth 25% (You **must** pass final to pass the course)

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

(If any changes are made to this part, then the Approved Course description must also be changed and sent through the approval process.)

(Mark with "X" in box below to show appropriate approved grading system – see last page of this template.)

Standard Grading System (GPA)

Competency Based Grading System

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.

A. GRADING SYSTEMS <http://www.camosun.bc.ca/policies/policies.php>

The following two grading systems are used at Camosun College:

1. Standard Grading System (GPA)

Percentage	Grade	Description	Grade Point Equivalency
90-100	A+		9
85-89	A		8
80-84	A-		7
77-79	B+		6
73-76	B		5
70-72	B-		4
65-69	C+		3
60-64	C		2
50-59	D		1
0-49	F	Minimum level has not been achieved.	0

2. Competency Based Grading System (Non GPA)

This grading system is based on satisfactory acquisition of defined skills or successful completion of the course learning outcomes

Grade	Description
COM	The student has met the goals, criteria, or competencies established for this course, practicum or field placement.
DST	The student has met and exceeded, above and beyond expectation, the goals, criteria, or competencies established for this course, practicum or field placement.
NC	The student has not met the goals, criteria or competencies established for this course, practicum or field placement.

B. 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://www.camosun.bc.ca/policies/E-1.5.pdf> for information on conversion to final grades, and for additional information on student record and transcript notations.

Temporary Grade	Description
I	<i>Incomplete</i> : A temporary grade assigned when the requirements of a course have not yet been completed due to hardship or extenuating circumstances, such as illness or death in the family.
IP	<i>In progress</i> : A temporary grade assigned for courses that are designed to have an anticipated enrollment that extends beyond one term. No more than two IP grades will be assigned for the same course.
CW	<i>Compulsory Withdrawal</i> : A temporary grade assigned by a Dean when an instructor, after documenting the prescriptive strategies applied and consulting with peers, deems that a student is unsafe to self or others and must be removed from the lab, practicum, worksite, or field placement.