

School of Access Community Learning Partnerships MATH 053 DS19

Intermediate Mathematics 2 Course Outline – Summer 2017

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Class Hours: Online Office Hours: By Arrangement

Calendar Description

This course covers the second part of ABE Intermediate Math, and provides the introductory algebra and problem-solving skills required for further study in advanced-level algebra, math for technology, and any course or program that requires Math 10. Topics include: real numbers, algebraic expressions, equations, inequalities, graphing, and polynomials.

Prerequisite(s): MATH 052, **or** assessment.

http://camosun.ca/learn/calendar/current/web/math.html

Required Materials

- (a) Reliable access to the internet
- (b) Registration with MyMathLab: http://www.pearsonmylabandmastering.com/northamerica/mathxl/st udents/get-registered/index.html
- (c) Course ID: gupta60888
- (d) Scientific calculator (Sharp EL531 is the recommended calculator, and is good through MATH 073)

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 15-20 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 Tutor Center.

Contact me via email to get permission to write the Final exam. The Final Exam must be written with an invigilator.

Grade Calculation¹: 5 Unit Exams worth 75% and a Final Exam worth 25%

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¹ As this is a mastery-based course, the goal for each test is 75% or better. If you scored less than 75% then you will need to rewrite the test before you continue. Note: Tests can only be rewritten once for a total of two times and all test scores are averaged to calculate a final mark



Intermediate Mathematics 2

Course Outline - Summer 2017

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

Grading System

Percentage	Grade	Grade Point Equivalency
90-100%	A+	9
85-89%	Α	8
80-84%	A-	7
77-79%	B+	6
73-76%	В	5
70-72%	B-	4
65-69%	C+	3
60-64%	С	2
50-59%	D	1
<50%	F	0
In Progress	IP	N/A

Math Help Centres:

Ewing 342 (LANS) and CBA 109 (INT): These drop-in centres are available for you to work on math homework and to seek **free** help from the Instructional Assistant. See the hours posted on the math lab doors or go to http://camosun.ca/services/help-centres/math.html

Study Tips: It is recommended that approximately 3-6 hours per week be spent studying and completing homework for this course outside of class time. Find a study buddy to discuss math problems and **use the math labs**.



Intermediate Mathematics 2 Course Outline – Summer 2017

MATH 053 course content		
	Unit R: Arithmetic Review	(Sugeested) Due Date
Pre-tes	st	
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	Dividing whole numbers and decimals	
R.7	Order of operations	
R.8	Operations with fractions	
R.9	Equivalent fractions	
R.10	Adding and subtracting fractions	
R.11	Multiplying fractions	
R.12	Dividing fractions	
R.13	Converting fractions and decimals	
R.14	Estimation	
Post-T	est (timed 3hrs.)	
Unit R Final Test (timed 3hrs.)		May 6, 2017
Unit 1: Real Numbers and Algebraic Expressions		Way 0, 2017
Pre-tes		
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	
Post-T	est (timed 3hrs.)	
Unit 1 Final Test (timed 3hrs.)		May 26, 2017
Unit 1	rınaı rest (timed snrs.)	Iviay 26, 201



Intermediate Mathematics 2 Course Outline – Summer 2017

ı	Init 2: Solving Equations and Inequalities	(Suggested) Due Date
Pre-test	<u> </u>	(Guggosteu) Due Dute
8.1	Solving equations: the addition principle	
8.2	Solving equations: the multiplication 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	
8.8	Applications and problem solving with	
0.0	inequalities	
Post-Te	st (timed 3hrs.)	
	inal Test (timed 3hrs.)	June 26, 2017
	Unit 3: Graphs of Linear Equations	
Pre-test		
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	
Post-Te	st (timed 3hrs.)	
Unit 3 F	inal Test (timed 3hrs.)	July 16, 2017
Uı	nit 4: Polynomials: Operations & Factoring	
Pre-test	t en	
10.1	Integers as exponents	
10.2	Exponents and scientific notation	
10.3	Introduction to polynomials	
10.4	Addition and subtraction of polynomials	
10.5	Multiplication of polynomials	
10.6	Special products	
10.7	Operations with polynomials in several variables	
10.8a	Division of polynomials by a monomial	
11.1ab	Introduction to common factoring	
11.2	Factoring trinomials of the type $x^2 + bx + c$	
11.5cd	Factoring differences of squares	
Post-Te	st (timed 3hrs.)	
Unit 4 Final Test (timed 3hrs.)		August 06, 2017
MATH 053 Final Exam Pre-Test		August 08, 2017
MATH 053 Final Exam Post-Test		August 12, 2017
	MATH 053 FINAL EXAM	August 14, 2017
		(date may change)



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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 & printer, 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/

College Policies

STUDENT CONDUCT POLICY

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

STUDENT GRADING POLICY

The purpose of this policy is to ensure that grading and promotion are consistent and fair. http://camosun.ca/learn/calendar/current/procedures.html

ACADEMIC PROGRESS POLICY

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