

School of Access Community Learning Partnerships

MATH 052 D19 Intermediate Mathematics 1

Course Outline – Winter 2015

Instructor: Morgan Sargent

Class Hours: Online

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Office Hours: By Arrangement

Calendar Description

This course covers the first part of ABE Intermediate Math, and provides the practical computational and problem-solving skills required for daily life and for further study in intermediate-level algebra and math for trades. Topics include: proportion, percent, graphs, statistics, measurement, geometry, and trigonometry.

Prerequisite(s): MATH 034, or assessment.

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

Required Materials

(a) Reliable access to the internet

(b) Registration with

MathXL: http://www.pearsonmylabandmastering.com/northamerica/mathxl/students/ /qet-registered/index.html

- (c) Class access code: **XL10-B1S9-601Z-4912**
- (d) scientific calculator (Sharp EL531 is the recommended calculator, and is good through MATH 072)

Course Content and Schedule – Fixed-paced Instructions

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 your instructor to get permission to write the Final exam. The Final Exam must be written with an invigilator.

Grade Calculation¹: Six 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

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Intended Learning Outcomes

(complete ABE Intermediate Mathematics learning outcomes at ABE Articulation Handbook website http://www.aved.gov.bc.ca/abe/docs/handbook.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 consumer math (arithmetic, statistics, measurement), geometry, and trigonometry
- 3. apply a variety of strategies in solving math-related problems
- 4. apply knowledge and skills in consumer math, geometry, and trigonometry to solve problems
- 5. use knowledge of consumer math, geometry, and trigonometry as a basis for further study in Intermediate-level algebra and math for trades

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



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	MATH 052 course content		
Unit R - Arithmetic Review		Due Date	
Pre-te	st	January 9, 2015	
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-		January 13, 2015	
	Final Test	January 14, 2015	
Office	Unit 1 – Percent Notation	Due Date	
Pre-te			
4.1	Ratio and proportion	January 16, 2015	
4.1	Percent notation		
4.3	Percent and fraction notation		
4.4	Solving percent problems using percent equations		
4.5	Solving percent problems using proportions		
4.6	Applications of percent		
4.7	Sales tax, commission, discount, and interest		
4.8	Simple interest and compound interest; credit cards		
	Interest rates on credit cards and loans		
Post-Test		February 2, 2015	
Unit 1 Final Test		February 3, 2015	
Unit 2 – Data, Graphs, and Statistics		Due Date	
Pre-test		February 6, 2015	
5.1	Averages, medians, and modes		
5.2	Tables and pictographs		
5.3	Bar graphs and line graphs		
5.4	Circle graphs		



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Unit 3 - Measurement	February 16, 2015 Due Dates February 20, 2015 March 8, 2015
Pre-test A* Linear measures: American units and metric units (*Appendixes) B* Weight and mass; medical applications C* Capacity; medical applications D* Time and temperature Post-Test	February 20, 2015
A* Linear measures: American units and metric units (*Appendixes) B* Weight and mass; medical applications C* Capacity; medical applications D* Time and temperature Post-Test	
units (*Appendixes) B* Weight and mass; medical applications C* Capacity; medical applications D* Time and temperature Post-Test	March 8 2015
B* Weight and mass; medical applications C* Capacity; medical applications D* Time and temperature Post-Test	March 8, 2015
C* Capacity; medical applications D* Time and temperature Post-Test	March 8 2015
D* Time and temperature Post-Test	March 8 2015
D* Time and temperature Post-Test	March 8 2015
	March 8 2015
Unit 3 Final Tost	IVIAI CII O, ZUIJ
Utilit J i itiai 165t	March 9, 2015
Unit 4 - Geometry	Due Dates
Pre-test	March 13, 2015
6.2 Perimeter	
6.3 Area	
6.4 Circles	
6.5 Volume and surface area	
6.8 Similar triangles	
Post-Test	March 26, 2015
Unit 4 Final Test	March 27, 2015
Unit 5 - Trigonometry	Due Dates
Pre-test	March 30 2015
5.1 The right triangle	
5.2 Angles and sides	
5.3 The Pythagorean theorem (more in 7e text p	
1059, 8e tx p 1087)	
5.4 The tangent ratio	
5.5 Using the tangent ratio	
5.6 The sine and cosine ratios	
5.7 Solving triangles	
Post-Test	April 9, 2015
Unit 5 Final Test	April 10, 2015
MATH 052 Final Exam	April 17, 2015



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Recommended Materials or Services to Assist Students to Succeed Throughout the Course

LEARNING SUPPORT AND SERVICES FOR STUDENTS

There are a variety of services available for students to assist them throughout their learning. This information is available in the College Calendar, Registrar's Office or the College web site at:

http://www.camosun.ca

STUDENT CONDUCT POLICY

There is a Student Conduct Policy. It is the student's responsibility to become familiar with the content of this policy. The policy is available in each School Administration Office, Registration, and on the College web site in the Policy Section, or the College web site at:

http://camosun.ca/about/policies/education-academic/e-2-student-services-&-support/e-2.5.pdf

STUDENT GRADING POLICY

A new student grading policy is in effect for students in the School of Access. This information is available in the College Calendar, Registrar's Office or the College web site at:

http://camosun.ca/about/policies/education-academic/e-1-programming-&-instruction/e-1.5.pdf

ACADEMIC PROGRESS POLICY

There is an Academic Progress Policy designed to enhance a learner's likelihood of success. Students should become familiar with the content of this policy. The policy is available in each School Administration Office, Registration, and on the College web site in the Policy Section or the College web site at:

http://camosun.ca/about/policies/education-academic/e-1-programming-&-instruction/e-1.1.pdf