



School of Access  
Community Learning Partnerships  
**MATH 052 S17**  
Intermediate Mathematics 1  
**Course Outline – Fall 2012**



**Instructor:** Morgan Sargent **E-mail:** [sargentm@camosun.bc.ca](mailto:sargentm@camosun.bc.ca)  
**Class Hours:** Mo & Fr 10:00-11:50; We 1:00-2:50

**Phone #:** 250-544-2192  
**Office Hours:** Mo, Fr: 9-10

### 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) textbook: *Developmental Mathematics*, 6<sup>th</sup>/7<sup>th</sup>/8<sup>th</sup> edition, Marvin Bittinger/Judith Beecher
- (b) module: *Trigonometry* (ABE Intermediate Mathematics module 14), British Columbia
- (c) scientific calculator (Sharp EL531 for MATH 072)

### Course Content and Schedule – Self-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 unit exam. These exams will be written face-to-face.

**Grade Calculation**<sup>1</sup>: Six Unit Exams worth 75% and a Final Exam worth 25%

---

<sup>1</sup> 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

## Grading System

Percentage	Grade	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
<50%	F	0
In Progress	IP	N/A

For information on Camosun College's grading policy, see the webpage <http://camosun.ca/about/policies/education-academic/e-1-programming-&-instruction/e-1.5.pdf>

## Academic Progress

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.

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

Text	MATH 052 <sup>2</sup> course content	Required or Optional
<b>Unit R – Arithmetic Review (no calculator)</b>		
	<b>Unit R Pre-test</b>	<b>Required</b>
R.2	Fraction Notation	Optional
R.3	Decimal Notation	Optional
	<b>Unit R Post-test</b>	<b>Required</b>
	<b>Unit R Exam (no calculator)</b>	<b>Required</b>
<b>Unit 1 Percent Notation</b> (for 4-month completion: 25 days)		
	<b>Unit 1 Pre-test</b>	<b>Required</b>
4.1	Ratio and proportion	Optional
4.2	Percent notation	Optional
4.3	Percent and fraction notation	Optional
4.4	Solving percent problems using percent equations	Optional
4.5	Solving percent problems using proportions	Optional
4.6	Applications of percent	Optional
4.7	Sales tax, commission, discount, and interest	Optional
4.8	Interest rates on credit cards and loans	Optional
	Summary and review	Optional
	Chapter test	Optional
	<b>Unit 1 Post-test</b>	<b>Required</b>
	<b>Unit 1 Exam</b>	<b>Required</b>
<b>Unit 2 Data, Graphs, and Statistics</b> (15 days)		
	<b>Unit 2 Pre-test</b>	<b>Required</b>
5.1	Averages, medians, and modes	Optional
5.2	Tables and pictographs	Optional
5.3	Bar graphs and line graphs	Optional
5.4	Circle graphs	Optional
	Summary and review	Optional
	Chapter test	Optional
	<b>Unit 2 Post-test</b>	Optional
	<b>Unit 2 Exam</b>	<b>Required</b>
<b>Unit 3 Measurement</b> <sup>3</sup> (15 days)		
	<b>Unit 3 Pre-test</b>	<b>Required</b>
A*	Linear measures: American and metric units (*Appendixes)	Optional
B*	Weight and mass; medical applications	Optional
C*	Capacity; medical applications	Optional
D*	Time and temperature	Optional
	<b>Unit 3 Post-test</b>	<b>Required</b>
	<b>Unit 3 Exam</b>	<b>Required</b>

<sup>2</sup> Before starting unit 1, students must pass a competency test to demonstrate that they can add, subtract, multiply, and divide whole numbers, fractions, and decimals **without the use of a calculator**.

<sup>3</sup> Unit 3 is covered by Appendixes A-D at the back of the text, and unit 5 is covered by the supplementary module entitled *Trigonometry*.

<b>Unit 4 Geometry (20 days)</b>		
	<b>Unit 4 Pre-test</b>	<b>Required</b>
6.1	Basic geometric figures	Optional
6.2	Perimeter	Optional
6.3	Area	Optional
6.4	Circles	Optional
6.5	Volume and surface area	Optional
6.6	Relationships between angle measures	Optional
6.7	Congruent triangles and properties of parallelograms	Optional
6.8	Similar triangles	Optional
	Summary and review	Optional
	Chapter test	Optional
	<b>Unit 4 Post-test</b>	<b>Required</b>
	<b>Unit 4 Exam</b>	<b>Required</b>
<b>Unit 5 Trigonometry (supplementary module) (25 days)</b>		
	<b>Unit 5 Pre-test</b>	<b>Required</b>
5.1	The right triangle	Optional
5.2	Angles and sides	Optional
5.3	The Pythagorean theorem (more in 6e text p 1087, 7e text p 1059)	Optional
5.4	The tangent ratio	Optional
5.5	Using the tangent ratio	Optional
5.6	The sine and cosine ratios	Optional
5.7	Solving triangles	Optional
	<b>Unit 5 Post-test</b>	<b>Required</b>
	<b>Unit 5 Exam</b>	<b>Required</b>
	MATH 052 review	Optional
	<b>MATH 052 final exam day</b>	<b>Required</b>

## **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>