

Welcome to Camosun College!

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

School of Access - Community Learning Partnerships Department MATH 052 Intermediate Mathematics 1

COURSE OUTLINE

The Approved Course Description is available on the College website

http://camosun.ca/learn/programs/academic-upgrading/what-youll-learn/upgrading.html#tabs-intermediate_a

1. Instructor Information

(a) Instructor	Karen Lightbody
(b) Office hours	By appointment
(c) Location	Victoria Native Friendship Centre
(d) Phone	250-370-3675
(e) E-mail	lightbodyk@camosun.ca

2. Course Schedule

Monday and Wednesday 1:00 - 3:50 pm

3. 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 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

4. Required Materials

- (a) textbook: Developmental Mathematics, 9th or 8th edition, Marvin Bittinger/Judith Beecher
- (b) module: Trigonometry (ABE Intermediate Mathematics module 14), British Columbia
- (c) scientific calculator (Sharp EL-531X or EL-531W for next level MATH 072 or 135)

Supplementary Materials

- (d) Student's Solutions Manual, Judith Penna (for sale in the bookstore; available for reference in the classroom)
- (e) Instructor's Solutions Manual, Judith Penna (for reference in the classroom)
- (f) website www.mymathlab.com (online text, tutorials, videos, and testing)

5. Course Instructions and Content

The course completion time will vary for each student, depending on a number of factors, including your current level of math skills, motivation, learning rate, and how much time you have to study math, either at the college or at home. Students generally need to spend 5–15 hours of study time per week to complete each math course within 4 months.

Note: The first three units of MATH 052 cover essentially the same content as the last three units of MATH 034. At the discretion of the instructor, students who have recently completed MATH 034 may either transfer their 034 units 4–6 test scores to 052 units 1–3, or write the 052 tests for these units to improve their scores and understanding.

- (a) 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 if necessary, use the Arithmetic Review booklet to review these operations before writing the competency test
- (b) for each section of the 052 text listed in the table below, read the explanations, study the Examples, do the Margin Exercises, and then work through and check all or at least some of the more difficult odd-numbered problems in the Exercise Set
- (c) note that 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*
- (d) to prepare for the unit test for each unit, do the Summary and Review Exercises and write the Chapter Test at the end of the chapter, and correct all of your errors
- (e) review your test results with the instructor, and proceed to the next unit if you score 75% or better, or rewrite the unit test if you score less than 75% (all test scores count)

	MATH 052 course content				
Unit R - Arithmetic Review (no calculator) [This is a Separate Booklet]					
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	Powers – repeated multiplication				
R.7	Dividing whole numbers and decimals				
R.8	Order of operations				
R.9	Operations with fractions				
R.10	Equivalent fractions				
R.11	Adding and subtracting fractions				
R.12	Multiplying fractions				
R.13	Dividing fractions				
R.14	Converting fractions and decimals				
R.15	Estimation				
	Practice Test				
	Unit R test (no calculator)				

9 th & 8 th ed.							
	Unit 1 - Percent Notation	(for 4-month completion: 25 days)					
4.1	Ratio and proportion						
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 and disc						
4.8	Simple interest and credit cards						
	Summary and review						
	Chapter test						
	Unit 1 test						
	Unit 2 – Data, Graphs, and S	Statistics (15 days)					
5.1	Averages, medians, and modes						
5.2	Tables and pictographs						
5.3	Bar graphs and line graphs						
5.4	Circle graphs						
	Summary and review						
	Chapter test						
	Unit 2 test						
	Unit 3 – Measurement	(15 days)					
A*		ts and metric units (*Appendixes)					
B*	Weight and mass; medical appl	, ,,					
C*	Capacity; medical applications	iodiono					
D*	Time and temperature						
	Summary and review						
	Unit 3 test						
	Unit 4 Coomatry	(20 dovo)					
6.2	Unit 4 – Geometry Perimeter	(20 days)					
6.3	Area						
6.4	Circles						
6.5	Volume and surface area						
6.8	Similar triangles						
0.0	Summary and review						
	Chapter test						
	Unit 4 test						
	Critic Floor						
	Unit 5 - Trigonometry (supp	elementary module) (25 days)					
5.1	The right triangle	, , , , , , , , , , , , , , , , , , , ,					
5.2	Angles and sides						
5.3		re 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						
	Practice test						
	Unit 5 test						
	MATH 052 review						
	MATH 052 final exam	day 105					
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6. Basis of Student Assessment (Weighting)

- (a) **Tests** 75% of the course grade is based on the average of **all** unit final test scores for units 1–5 (including both passing and failing test scores)
- (b) **Exams** 25% of the course grade is based on the average of **all** final exam scores (including both passing and failing exam scores)

Note: Students with a record of low attendance OR lack of progress may be restricted from re-registering in Academic and Career Foundations Department courses.

7. 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%
Α	85-89%	В	73–76%	С	60-64%	F	40-49%
A-	80-84%	B-	70–72%	ΙP	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.

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/

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/services/

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.