



CAMOSUN COLLEGE
School of Access
Academic and Career Foundations Department

MATH 052 Intermediate Mathematics 1

Spring 2014 (May 5 - June 27 2014) Section S06

COURSE OUTLINE

The Approved Course Description is available on the College website <http://www.camosun.ca/learn/calendar/current/>

1. Instructor Information

Contact Info

Name	Phone Number	Email	Office	Room
Pam Johnson	250-370-3850	johnsonp@camosun.ca	IU	CBA148

Classroom Hours

Course Name & Section	Day of Week	Hours	Campus	Room
AITT English SR25	Mon-Thurs	10:30-12:00	IU	CBA 113
AITT Math SR25	Mon-Thurs	1:00-2:30	IU	CBA 113
Math 034-057 S06	Tues-Thurs	3-5pm	IU	JW123

Lab Hours

Location	Day of Week	Hours	Campus	Room
CBA113	Mon-Thurs	10:00-10:30	IU	CBA 113

Office Hours

Time	Day of Week	Room
9:30-10:00	Mon-Thurs	CBA148
1200-1:00	Mon-Thurs	CBA148

2. 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

3. Required Materials

- (a) textbook: *Developmental Mathematics*, 6th/7th/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)

4. 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 final 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 final test results with the instructor, and proceed to the next unit if you score 75% or better, or rewrite the final test if you score less than 75% (all test scores count)

8th ed'n	7th ed'n	MATH 052 course content	
		Unit R – Arithmetic Review (no calculator)	
R.1	R.1	Place value	
R.2	R.2	Comparing numbers	
R.3	R.3	Rounding numbers	
R.4	R.4	Adding and subtracting whole numbers and decimals	
R.5	R.5	Multiplying whole numbers and decimals	
R.6	R.6	Dividing whole numbers and decimals	
R.7	R.7	Order of operations	
R.8	R.8	Operations with fractions	
R.9	R.9	Equivalent fractions	
R.10	R.10	Adding and subtracting fractions	
R.11	R.11	Multiplying fractions	
R.12	R.12	Dividing fractions	

R.13	R.13	Converting fractions and decimals		
R.14	R.14	Estimation		
		Practice Test		
		Unit R final test (no calculator)		

8th ed'n	7th ed'n	MATH 052 course content		
		Unit 1 – Percent Notation (for 4-month completion: 25 days)		
4.1	4.1	Ratio and proportion		
4.2	4.2	Percent notation		
4.3	4.3	Percent and fraction notation		
4.4	4.4	Solving percent problems using percent equations		
4.5	4.5	Solving percent problems using proportions		
4.6	4.6	Applications of percent		
4.7	4.7	Sales tax, commission, discount, and interest		
4.8		Simple interest and compound interest; credit cards		
	4.8	Interest rates on credit cards and loans		
		Summary and review		
		Chapter test		
		Unit 1 final test		
		Unit 2 – Data, Graphs, and Statistics (15 days)		
5.1	5.1	Averages, medians, and modes		
5.2	5.2	Tables and pictographs		
5.3	5.3	Bar graphs and line graphs		
5.4	5.4	Circle graphs		
		Summary and review		
		Chapter test		
		Unit 2 final test		
		Unit 3 – Measurement (15 days)		
A*	A*	Linear measures: American units and metric units (*Appendixes)		
B*	B*	Weight and mass; medical applications		
C*	C*	Capacity; medical applications		
D*	D*	Time and temperature		
		Summary and review		
		Unit 3 final test		
		Unit 4 – Geometry (20 days)		
6.2	6.2	Perimeter		
6.3	6.3	Area		
6.4	6.4	Circles		
6.5	6.5	Volume and surface area		
6.8	6.8	Similar triangles		
		Summary and review		
		Chapter test		
		Unit 4 final test		
		Unit 5 – Trigonometry (supplementary module) (25 days)		
5.1	5.1	The right triangle		
5.2	5.2	Angles and sides		
5.3	5.3	The Pythagorean theorem (more in 7e text p 1059, 8e tx p 1087)		
5.4	5.4	The tangent ratio		
5.5	5.5	Using the tangent ratio		
5.6	5.6	The sine and cosine ratios		
5.7	5.7	Solving triangles		
		Practice test		

		Unit 5 final test		
		MATH 052 review		
		MATH 052 final exam	day 105	

5. 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 poor attendance OR poor progress may be restricted from re-registering in Academic and Career Foundations Department courses.

6. Grading System

A+	90–100%	B+	77–79%	C+	65–69%
A	85–89%	B	73–76%	C	60–64%
A–	80–84%	B–	70–72%	IP	in progress

7. Learning Support and Services for Students

ACADEMIC UPGRADING HELP CENTRE (CBA 109)

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/>

8. College Policies

ACADEMIC PROGRESS

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-&-instruction/e-1.1.pdf>

GRADING

The purpose of this policy is to ensure that grading and promotion are consistent and fair. <http://camosun.ca/about/policies/education-academic/e-1-programming-&-instruction/e-1.5.pdf>

STUDENT CONDUCT

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-&-support/e-2.5.pdf>

