Welcome to Camosun College!

Camosun College campuses are located on the traditional territories of the Lkwungen and W̱SÁNEĆ 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/calendar/current/web/math.html

1. Instructor Information

Instructor: Karen Lightbody   **Phone**: 250-370-3489

Office: Ewing 220   **e-mail**: lightbodyk@camosun.ca

Office hours: Tuesday/Thursday 3:30-4:30 or by appointment

Class Schedule

Tuesday/Thursday   12:30-3:30   Bridges for Women Society

2. Intended Learning Outcomes
(complete ABE Fundamental Mathematics learning outcomes at ABE Articulation Handbook website https://www.bccat.ca/pubs/2018-19%20ABE%20Articulation%20Guide.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*, Custom Edition for Camosun College, Marvin Bittinger/Judith Beecher (Content taken from the 9th Edition of *Developmental Mathematics* by the same authors*)*
(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
(a) math 052 materials can be found here: https://sites.camosun.ca/acf-math/math-052/
(b) *Student's Solutions Manual*, Judith Penna
    (for sale in the bookstore; available for reference in the classroom)
(c) *Instructor's Solutions Manual*, Judith Penna (for reference in the classroom)
(d) 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:

(a) students must pass a competency test to demonstrate that they can add, subtract, multiply, and divide whole numbers, fractions, and decimals <u>without the use of a calculator</u> – 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)

9th & 8th ed.	MATH 052 course content	
	Unit R – Arithmetic Review (no calculator)	
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	
	Practice Test	
	Unit R final test (no calculator)	
	Unit 1 – Percent Notation (for 4-month completion: 25 days)	
4.1	Ratio and proportion	
4.2	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	
	Summary and review	
	Chapter test	
	Unit 1 final test	
	Unit 2 – Data, Graphs, and 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 final test	

9th & 8th ed.	MATH 052 course content		
	Unit 3 – Measurement (15 days)		
A*	Linear measures: American units and metric units (*Appendixes)		
B*	Weight and mass; medical applications		
C*	Capacity; medical applications		
D*	Time and temperature		
	Summary and review		
	Unit 3 final test		
	Unit 4 – Geometry (20 days)		
6.2	Perimeter		
6.3	Area		
6.4	Circles		
6.5	Volume and surface area		
6.8	Similar triangles		
	Summary and review		
	Chapter test		
	Unit 4 final test		
	Unit 5 – Trigonometry (supplementary module) (25 days)		
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		
	Practice test		
	Unit 5 final test		
	MATH 052 review		
	MATH 052 final exam	day 105	

5. Basis of Student Assessment

(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 – 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%
A	85–89%	B	73–76%	C	60–64%	F	40-49%
A−	80–84%	B−	70–72%	IP	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.