C A M O S U N
C O L L E G E

CAMOSUN COLLEGE
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 and schedule:

Name: Pooja Gupta   **Email:** guptap@camosun.ca

Phone: 250-370-3848   **Office:** CBA 149

My class schedule this term:

	Monday	Tuesday	Wednesday	Thursday	Friday
9:30 – 11:20	**In class** Saanich Adult Education Centre	**Online class** (10:00 – 12:50) **Office time** Meetings by appointments only	**In class** Saanich Adult Education Centre	**Online class** (10:00 – 12:50) **Office time** Meetings by appointments only	**In class** Saanich Adult Education Centre
12:30 – 3:20	**In class** Belmont High School		**In class** Belmont High School		Department Meetings

Important Dates this Fall term:
September 4 - Labour Day, College closed
September 5 - Term Starts
September 19 - Fee Deadline Fall '17
October 9 - Thanksgiving Day, College closed
October 10 - Foundation Bursaries Deadline to apply for Fall 2017
October 19 - ShakeOut - BC provincial preparedness
November 11 - Remembrance Day
November 13 - College closed
December 8 - Last day of instruction
December 11-18 – Exams
December 18 - Term Ends

Note: - Please seek help as soon as possible so that I can help you to be successful this term. As emails are accessible from any location, I prefer **emails** to phone calls.

2. 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

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
(d) Selected open source math videos: https://sites.camosun.ca/acf-math/math-052/
(e) *Student's Solutions Manual*, Judith Penna
(for sale in the bookstore; available for reference in the classroom)
(f) *Instructor's Solutions Manual*, Judith Penna (for reference in the classroom)
(g) 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.

(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)

(f)

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)		

9th & 8th ed.	MATH 052 course content		
	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 discount		
4.8	Simple interest and compound interest; credit cards		
	Summary and review		
	Chapter test		
	Unit 1 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 test		
	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 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 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 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 low attendance OR lack of 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 or Ewing 342)
http://camosun.ca/services/help-centres/math.html

Help with coursework, reference & learning materials library,
computers & printers, 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-and-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-and-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-and-support/e-2.5.pdf