



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.

Math 052 Intermediate Mathematics 1
Fall 2019

COURSE OUTLINE

The calendar description is available on the web @ <http://camosun.ca/learn/calendar/current/web/math.html>

Ω Please note: This outline will not be kept indefinitely. It is recommended students keep this outline for their records, especially to assist in transfer credit to post-secondary institutions.

1. Instructor Information

(a) Instructor	Wendy Seward
(b) Office hours	By appointment
(c) Location	SAEC
(d) Phone	Alternative: _____
(e) E-mail	sewardw@camosun.ca
(f) Website	_____

2. Intended Learning Outcomes

Complete ABE Intermediate Mathematics learning outcomes at ABE Articulation Handbook website https://www2.gov.bc.ca/assets/gov/education/post-secondary-education/adult-education/abe_guide.pdf

On completion of the course, students will be able to:

- use mathematics at an ABE Intermediate level with competence
- demonstrate knowledge and skills in using the language, principles, and operations of consumer math (arithmetic, statistics, measurement), geometry, and trigonometry
- apply a variety of strategies in solving math-related problems
- apply knowledge and skills in consumer math, geometry, and trigonometry to solve problems
- 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

- 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)
- modules:
 - Arithmetic Review (ABE Intermediate Mathematics module 1), British Columbia
 - Trigonometry (ABE Intermediate Mathematics module 14), British Columbia
- Scientific calculator: The Sharp EL 531W model (or similar) will be the only calculator allowed for this course

4. Course Content and Schedule

The course is designed to be completed in one term. However, it can be completed sooner, depending on a number of factors including your beginning level of math-skills, motivation, learning rate, and how much time you can actually study (average 15 to 20 hours per week to complete in 4 months).

If you do not understand something, seek help right away. Resources include your instructor, your family and friends, and /or the Math Help Centres.

*Math Help: You can get free face-to-face tutoring from our instructional assistants in the Math Help Centres/Labs in E342 (Lansdowne) or CBA 109 (Interurban). Hours are posted on the doors and on the website <http://camosun.ca/services/help-centres/>.

Math 052 course content				
Section	Topic	Suggested Time (Days)	Suggested Date	Suggested Week
Unit R	Arithmetic Review [This is a Separate Booklet]			
	Pre-test		Sep 3	
R.1	Place value	1	Sep 3	1
R.2	Comparing numbers	1	Sep 4	1
R.3	Rounding numbers	1	Sep 5	1
R.4	Adding and subtracting whole numbers and decimals	2	Sep 6, 7	1
R.5	Multiplying whole numbers and decimals	2	Sep 8, 9	1, 2
R.6	Powers – repeated multiplication	2	Sep 10, 11	2
R.7	Dividing whole numbers and decimals	2	Sep 12, 13	2
R.8	Order of operations	2	Sep 14, 15	2
R.9	Operations with fractions	2	Sep 16, 17	3
R.10	Equivalent fractions	1	Sep 18	3
R.11	Adding and subtracting fractions	2	Sep 19, 20	3
R.12	Multiplying fractions	1	Sep 21	3
R.13	Dividing fractions	1	Sep 22	3
R.14	Converting fractions and decimals	2	Sep 23, 24	4
R.15	Estimation	1	Sep 25	4
	Post-test			
	Unit R test		Sep 26 - 28	4
Unit 1 : Chapter 4	Percent Notation			
	Pre-test		Sep 29	
4.1	Ratio and proportion	2	Sep 29, 30	4, 5
4.3	Percent and fraction notation	2	Oct 1, 2	5
4.4	Solving percent problems using percent equations	2	Oct 3, 4	5
4.5	Solving percent problems using proportions	2	Oct 5, 6	5
4.6	Applications of percent	2	Oct 7, 8	6
4.7	Sales tax, commission and discount	2	Oct 9, 10	6
4.8	Simple interest and compound interest; credit cards	2	Oct 11, 12	6
	Post-Test (timed 3hrs.)			
	Unit 1 Final Test (timed 3hrs.)		Oct 13 - 16	6, 7
Unit 2 : Chapter 5	Data, Graphs, and Statistics			
	Pre-test		Oct 17	
5.1	Averages, medians, and modes	2	Oct 17, 18	7
5.2	Tables and pictographs	2	Oct 19, 20	7
5.3	Bar graphs and line graphs	2	Oct 21, 22	8
5.4	Circle graphs	2	Oct 23, 24	8
	Post-Test (timed 3hrs.)			
	Unit 2 Final Test (timed 3hrs.)		Oct 25 - 27	8
Unit 3: Appendixes	Measurement			
	Pre-test		Oct 28	
A	Linear measures: American units and metric units	3	Oct 28 - 30	9
B	Weight and mass; medical applications	3	Oct 31 – Nov 2	9
C	Capacity; medical applications	3	Nov 3 - 5	9, 10
D	Time and temperature	2	Nov 6, 7	10
	Post-Test (timed 3hrs.)			
	Unit 3 Final Test (timed 3hrs.)		Nov 8 - 10	10

Math 052 course content				
Section	Topic	Suggested Time (Days)	Suggested Date	Suggested Week
Unit 4: Chapter 6	Geometry			
	Pre-test		Nov 11	
6.2	Perimeter	2	Nov 11, 12	11
6.3	Area	3	Nov 13 - 15	11
6.4	Circles	2	Nov 16, 17	11
6.5	Volume and surface area	4	Nov 18 - 21	12
6.8	Similar triangles	2	Nov 22, 23	12
	Post-Test (timed 3hrs.)			
	Unit 4 Final Test (timed 3hrs.)		Nov 24 - 26	12, 13
Unit 5: Chapter 5	Trigonometry			
	<i>No pretest for this unit</i>			
5.1	The right triangle	1	Nov 27	13
5.2	Angles and sides	1	Nov 28	13
5.3	The Pythagorean theorem	1	Nov 29	13
5.4	The tangent ratio	1	Nov 30	13
5.5	Using the tangent ratio	1	Dec 1	13
5.6	The sine and cosine ratios	2	Dec 2, 3	14
5.7	Solving triangles	3	Dec 4, 5, 6	14
	Post-Test (timed 3hrs.)			
	Unit 5 Final Test (timed 3hrs.)		Dec 7, 8	14
	MATH 052 Final Pre-test			
	MATH 052 Final Post-test			
	MATH 052 Final Exam (timed 3hrs.)		Dec 9 - 13	

5. Basis of Student Assessment (Weighting)

Six Unit Exams worth 75% | Final Exam worth 25% (You **must** pass the final to pass the course; you must write and **pass** all the unit exams to write the final.)

Note: Students with a record of poor attendance OR poor progress may be restricted from re-registering in Community Learning Partnerships 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.

7. Recommended Resources to Assist Students to Succeed Throughout the Course

Ask your course instructor **FIRST** and then you could also go to:
ACADEMIC UPGRADING HELP CENTRES (CBA 109 and E342)
<http://camosun.ca/services/help-centres/math.html>

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 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/get-support.html#urgent>

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/>

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.