



*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.*

**Math 052 Intermediate Mathematics 1**  
**Summer 2020 – DS19**

**COURSE OUTLINE**

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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.

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**1. Instructor Information**

(a) Instructor	Wendy Seward
(b) Office hours	By appointment
(c) Location	Interurban campus
(d) Phone	Alternative: _____
(e) E-mail	<a href="mailto:sewardw@camosun.ca">sewardw@camosun.ca</a>
(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](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**

- (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) modules:
  1. Arithmetic Review (ABE Intermediate Mathematics module 1), British Columbia
  2. Trigonometry (ABE Intermediate Mathematics module 14), British Columbia
- (c) Scientific calculator: The Sharp EL 531W model (or similar) will be the only calculator allowed for this course.
- (d) Reliable access to the internet
- (e) Registration with MyMathLab:  
<http://www.pearsonmylabandmastering.com/northamerica/mathxl/students/get-registered/index.html> . Course ID will be available at start of term.

**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).

**Contact your instructor to get permission to write the Final exam after you have completed all the Unit tests. The Final Exam must be written with an invigilator.**

If you do not understand something, seek help right away. In addition to online, resources include your family and friends, your instructor, 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 Start Date	Suggested Week
<b>Unit R</b>	<b>Arithmetic Review [This is a Separate Booklet]</b>			
	<b>Pre-test</b>	1	4 May	1
R.1	Place value	1	5 May	1
R.2	Comparing numbers	1	6 May	1
R.3	Rounding numbers	1	7 May	1
R.4	Adding and subtracting whole numbers and decimals	1	8 May	1
R.5	Multiplying whole numbers and decimals	1	9 May	1
R.6	Powers – repeated multiplication	1	10 May	2
R.7	Dividing whole numbers and decimals	1	11 May	2
R.8	Order of operations	2	12 May	2
R.9	Operations with fractions	1	14 May	2
R.10	Equivalent fractions	1	15 May	2
R.11	Adding and subtracting fractions	2	16 May	2
R.12	Multiplying fractions	1	18 May	3
R.13	Dividing fractions	1	19 May	3
R.14	Converting fractions and decimals	1	20 May	3
R.15	Estimation	1	21 May	3
	<b>Post-test</b>	1	22 May	3
	<b>Unit R test</b>	1	23 May	3
<b>Unit 1 : Chapter 4</b>	<b>Percent Notation</b>			
	<b>Pre-test</b>	1	24 May	4
4.1	Ratio and proportion	2	25 May	4
4.2	Percent notation	1	27 May	4
4.3	Percent and fraction notation	2	28 May	4
4.4	Solving percent problems using percent equations	2	30 May	4
4.5	Solving percent problems using proportions	2	1 Jun	5
4.6	Applications of percent	2	3 Jun	5
4.7	Sales tax, commission and discount	3	5 Jun	5
4.8	Simple interest and compound interest; credit cards	3	8 Jun	6
	<b>Post-Test (timed 3hrs.)</b>	1	11 Jun	6
	<b>Unit 1 Final Test (timed 3hrs.)</b>	1	12 Jun	6
<b>Unit 2 : Chapter 5</b>	<b>Data, Graphs, and Statistics</b>			
	<b>Pre-test</b>	1	13 Jun	6
5.1	Averages, medians, and modes	2	14 Jun	7
5.2	Tables and pictographs	2	16 Jun	7
5.3	Bar graphs and line graphs	2	18 Jun	7
5.4	Circle graphs	2	20 Jun	7
	<b>Post-Test (timed 3hrs.)</b>	1	22 Jun	8
	<b>Unit 2 Final Test (timed 3hrs.)</b>	1	23 Jun	8
<b>Unit 3: Appendixes</b>	<b>Measurement</b>			
	<b>Pre-test</b>	1	24 Jun	8
A	Linear measures: American units and metric units	3	25 Jun	8
B	Weight and mass; medical applications	3	28 Jun	9
C	Capacity; medical applications	3	1 Jul	9
D	Time and temperature	2	4 Jul	9
	<b>Post-Test (timed 3hrs.)</b>	1	6 Jul	10
	<b>Unit 3 Final Test (timed 3hrs.)</b>	1	7 Jul	10

Math 052 course content				
Section	Topic	Suggested Time (Days)	Suggested Start Date	Suggested Week
<b>Unit 4: Chapter 6</b>	<b>Geometry</b>			
	<b>Pre-test</b>	1	8 Jul	10
6.2	Perimeter	2	9 Jul	10
6.3	Area	3	11 Jul	11
6.4	Circles	2	14 Jul	11
6.5	Volume and surface area	3	16 Jul	12
6.8	Similar triangles	3	19 Jul	12
	<b>Post-Test (timed 3hrs.)</b>	1	22 Jul	12
	<b>Unit 4 Final Test (timed 3hrs.)</b>	1	23 Jul	12
<b>Unit 5: Chapter 5</b>	<b>Trigonometry</b>			
	<i>No pretest for this unit</i>			
5.1	The right triangle	1	24 Jul	12
5.2	Angles and sides	1	25 Jul	12
5.3	The Pythagorean theorem	2	26 Jul	13
5.4	The tangent ratio	2	28 Jul	13
5.5	Using the tangent ratio	2	30 Jul	13
5.6	The sine and cosine ratios	2	1 Aug	13
5.7	Solving triangles	3	3 Aug	14
	<b>Post-Test (timed 3hrs.)</b>	1	6 Aug	14
	<b>Unit 5 Final Test (timed 3hrs.)</b>	1	7 Aug	14
	<b>MATH 052 Final Pre-test</b>			
	<b>MATH 052 Final Post-test</b>			
	<b>MATH 052 Final Exam (timed 3hrs.)</b>		TDB	

## 5. Basis of Student Assessment (Weighting)

Six Unit Exams worth 50% | Final Exam worth 50% (You **must** pass final to pass the course. You must write all the unit tests before writing the final exam.)

*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.