



Welcome to Camosun College!

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.

School of Access – Community Learning Partnerships Department

MATH 023 Fundamental Mathematics 3 Winter 2021

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: Ramona Scott

Phone: email preferred

Office: online – D2L

e-mail: ScottR@camosun.bc.ca

Website: <https://sites.camosun.ca/clp-math/>

2. Course Description

MATH 023 is the third of six levels of Adult Literacy Fundamental Mathematics, which will give students a strong foundation of basic math skills, concepts, vocabulary, and problem-solving strategies. Topics: multiplying and dividing whole numbers, metric units, perimeter and area.

3. 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>)

Learning Outcome <i>Students will be able to . . .</i>	Sub-outcomes / skills <i>By achieving this broader outcome, students will demonstrate that they can also . . .</i>
1. Evaluate expressions using multiplication and division with carrying and with/without remainder	<ul style="list-style-type: none"> • Memorize division and multiplication facts • Recognize the relationship between X and -/-
2. Divide and multiply whole numbers by 10, 100's, and 1000's.	<ul style="list-style-type: none"> • Estimate products and quotients
3. Translate multiplication and division into mathematical expressions to solve multi-step word problems reflecting real life situations	<ul style="list-style-type: none"> • Solve single and multi-step multiplication and division world problems reflecting real life situations • Apply multiplication and division to real life situations
4. Demonstrate division by regrouping	<ul style="list-style-type: none"> • Apply or use examples of keywords

<p>5. Use mathematical vocabulary and language to communicate concepts</p>	<ul style="list-style-type: none"> • Define basic prefixes of metric system • Calculate area of a square and rectangle
<p>6. Recognize basic metric units</p>	<ul style="list-style-type: none"> • Compare and contrast perimeter and area informally, using a drawing or a shape

The learning outcomes in this course meet those for Adult Literacy Fundamental Mathematics (ALFM) in the [BC ABE Articulation Handbook 2020/21 Edition](#). Please refer to the [guide](#) for relevant sample tasks.

4. Required Materials

(a) textbook: *Adult Literacy Fundamental Mathematics Book Three*

Supplementary Materials

(b) additional math 023 materials can be found here: <https://sites.camosun.ca/acf-math/math-021-026/>

(c) three-ring binder, lined paper, graph paper

(d) pencils, eraser, ruler, highlighter, file cards

5. Course Instructions and Content

- for each topic of the book listed below, study the explanations and examples, then work through and check your answers to as many exercise problems as you need to fully understand
- ask for help when you have difficulties, or when you don't understand something
- complete the Self-Tests for each topic and check your answers, then to prepare for the unit Final Test, complete the Review problems at the end of each unit
- after clearing up any problems and correcting your errors, ask your instructor for authorization to write the unit Final Test
- 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%
- calculators may not be used on the Final Tests, unless approved by the instructor

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 a reasonable amount of time.

unit	topic	MATH 023 course content – Book Three	date
1		Number Sense	
	A	Emotions and Learning	
2		Multiplication	
	A	Multiplying Larger Numbers	
	B	Two and Three Digit Multipliers	
	C	Estimating Products	
	D	Multiplication Problems	
		Unit 2 Review	
		Unit 2 Final Test	
3		Division	
	A	Introduction and Division Facts	
	B	Divisibility	
	C	Dividing Larger Numbers by One Digit Divisors	
	D	Dividing by Two and Three Digit Divisors	
	E	Estimating Quotients	
	F	Division Problems	
	G	Mixed Problems	
		Unit 3 Review	
		Unit 3 Final Test	
4		Change, Time and the Metric System	
	A	Counting to Make Change	
	B	Making Change	
	C	Converting Units of Time	
	D	The Metric System	
		Unit 4 Review	
		Unit 4 Final Test	

6. Basis of Student Assessment

The MATH 023 course grade is based on the average of all unit Final Test passing 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.

7. Grading System

Letter Grades

Competency Based

Refer to Grading Policy at <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.5.pdf> for specific information regarding these systems)

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. 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

9. 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.