



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 025 Fundamental Mathematics 5 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. Short Description

Students will further a foundation of basic mathematics skills, concepts, vocabulary, and problem-solving strategies to prepare them to meet personal, career, or academic goals. Students will complete operations on the following topics: simplifying, adding, subtracting, multiplying, and dividing fractions and mixed numbers. Students will further automaticity and estimation skills to increase their confidence and competence in mathematics.

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. Use mathematical vocabulary and language to communicate concept of fractions	<ul style="list-style-type: none"> • Define and use keywords like fraction, numerator, denominator, mixed numbers, equivalent fractions, whole numbers, long division, greater than, lesser than, equals, simplify • Express a number as a product of prime #'s or composite numbers, recognize prime numbers, greatest common factor, simplify • Comparison of fractions and long division of whole numbers • Group equivalent fractions
2. Recognize the relationship between fractions and decimals	
3. Reduce fractions	
4. Convert between improper fractions and mixed numbers	
5. Identify equivalent fractions	
6. Evaluate fraction expressions using addition, subtraction, multiplication and division	

<p>7. Translate a word problem into a mathematical equation and solve</p>	<ul style="list-style-type: none"> • Calculate perimeter and area of squares and rectangles • Determine LCD, LCM • Simplify and write equivalent fractions using addition, subtraction, multiplication division, common denominator • Use critical thinking in real life math applications
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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 Five*

Supplementary Materials

(b) additional math 025 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 Content and Schedule

Self-paced Instructions

- (a) 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
- (b) ask for help when you have difficulties, or when you don't understand something
- (c) 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
- (d) after clearing up any problems and correcting your errors, ask your instructor for authorization to write the unit Final Test
- (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%
- (f) 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 025 course content – Book Five	date	
1		Common Fractions		
	A	Introducing Common Fractions		
	B	Common Fractions		
	C	When to Use a Fraction or a Decimal		
		Unit 1 Review		
		Unit 1 Final Test		
2		Equivalent Fractions		
	A	Equivalent Fractions		
		Unit 2 Review		
		Unit 2 Final Test		

3		Multiplying and Dividing Fractions		
	A	Multiplying Common Fractions		
	B	Dividing Common Fractions		
		Unit 3 Review		
		Unit 3 Final Test		
4		Adding and Subtracting Fractions		
	A	Adding Common Fractions		
	B	Subtracting Common Fractions		
	C	Problems Using Common Fractions		
		Unit 4 Review		
		Unit 4 Final Test		
5		Common Fractions and Decimals		
	A	Common Fractions and Decimals		
	B	Comparing Fractions and Decimals		
		Unit 5 Review		
		Unit 5 Final Test		

6. Basis of Student Assessment

The MATH 025 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 – Standard Grading System <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.5.pdf>

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.