Welcome to Camosun College!

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.

School of Access – Community Learning Partnerships Department

MATH 022   Fundamental Mathematics 2 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 grow a foundation of basic mathematics skills, concepts, vocabulary, and problem-solving strategies to prepare them to meet personal, career, or academic goals. Students will be able to perform simple tasks related to following topics: place value, rounding, adding, and subtracting whole numbers to 1,000,000; multiplication facts up to 12x12. Students will grow automaticity and estimation skills to increase their confidence and competence in mathematics.

3. Intended Learning Outcomes

Learning Outcome *Students will be able to . . .*	Sub-outcomes / skills *By achieving this broader outcome, students will demonstrate that they can also . . .*
1. **Evaluate multi-digit expressions using addition, subtraction with carrying or borrowing/ trading**	• **Show the relationship between multiplication and repeated addition**
2. **Identify place value to 1,000,000**	• **Recall multiplication facts up to 12 x 12**
3. **Round whole numbers up to 1,000,000 place value**	• **Write numbers in expanded notation to 10,000**
4. **Read, write and compare whole numbers to 1,000,000 in digits and words**	• **Estimate sums and differences**
5. **Represent mathematical ideas in concrete, pictorial and symbolic forms**	• **Multiply two whole numbers that are less than or equal to 10**
6. **Use mathematical vocabulary and language to communicate concepts**	• **Multiply one-digit numbers by 10, 100, 1000**

7. **Add and subtract currency up to $2**	• **Use key words: multiplier, multiple, multiplication, multiply, product, double/twice, triple, quadruple, by, of, carrying, borrowing, times, expanded notation, perimeter**
8. **Translate 1-step addition, subtraction and multiplication word problems into a mathematical expression**	
9. **Convert, add and subtract time units**	
10. **Convert to and from 12-hour notation to 24-hour notation**	

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 Two*

Supplementary Materials

(b) additional math 022 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.
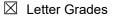
unit	topic	MATH 022 course content – Book Two	date	
1		**Number Sense**		
	A	Emotions and Learning		
	B	Expanded Form		
	C	Place Value		
	D	Ordering Numerals		
	E	Rounding Numbers		
		Unit 1 Review		
		Unit 1 Final Test		
2		**Addition**		
	A	Addition		
	B	Addition with Carrying		
	C	Estimating Answers in Addition		
		Unit 2 Review		
		Unit 2 Final Test		
3		**Subtraction**		
	A	Subtraction		
	B	Subtraction of Larger Numbers		
	C	Renaming		
	D	Subtraction with Borrowing		
	E	Estimating Answers in Subtraction		
	F	Problem Solving		
		Unit 3 Review		
		Unit 3 Final Test		
4		**Making Change and Time**		
	A	Counting to Make Change		
	B	Making Change		
	C	Telling Time		
	D	Adding Units of Time		
		Unit 4 Review		
		Unit 4 Final Test		

6. Basis of Student Assessment

The MATH 022 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

☒ 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.