CAMOSUN COLLEGE
School of Access
Academic and Career Foundations Department

MATH 022   Fundamental Mathematics 2
Winter 2013 (January 7 – April 19)   Section S06

COURSE OUTLINE

The Approved Course Description is available on the College website
http://www.camosun.bc.ca/learn/calendar/index.html

Ω *Please note: This outline will not be kept indefinitely. It is recommended students keep this outline for their records.*

1. Instructor Information

(a) Instructors: Rick McFadden

(b) Office hours: by appointment: 3−5 pm Mon, 1−3 pm Tue−Thu; other times available

(c) Help Centre hours: 100–300 pm Wed in CBA 109

(d) Location: Interurban Campus

(e) Phone: (250) 370-4915

(f) E-mail: mcfadden@camosun.bc.ca

(g) Website

2. Intended Learning Outcomes
(complete ABE Fundamental Mathematics learning outcomes at ABE Articulation Handbook website
http://www.aved.gov.bc.ca/abe/handbook.pdf)

At completion of the course students will be able to…
* Use math vocabulary related to multiplication and perimeter, and to place value, estimating, ordering, adding, and subtracting whole numbers to 1,000,000.
* Identify place value and compare the magnitude of whole numbers.
* Round whole numbers to a given place.
* Add whole numbers with and without carrying.
* Subtract whole numbers with and without borrowing.
* Estimate sums and differences.
* Memorize the multiplication facts and multiply two whole numbers to 10 x 10.
* Write numbers as multiplication or repeated addition.
* Use addition or subtraction to solve multi-step application problems.
* Use multiplication to solve one-step application problems.
* Add and subtract time measurements, and convert between 12 and 24 hour notation.
* Calculate the perimeter of squares and rectangles.
* Work independently on the materials provided, and ask for help when needed.
* Use strategies to organize work and notes, and to manage time and math anxiety.

3. Required Materials

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

Supplementary Materials

(b) three-ring binder, lined paper, graph paper
(c) pencils, eraser, ruler, highlighter, file cards

4. 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	Place Value		
	C	Expanded Form		
	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		

unit	topic		MATH 022 course content – Book Two	date	
4			**Multiplication**		
		A	Introduction and Multiplication Facts		
		B	Multiplying by 10, 100 and 1000		
		C	Word Problems		
			Unit 4 Review		
			Unit 4 Final Test		
5			**Making Change, Time & Perimeter**		
		A	Counting to Make Change		
		B	Making Change		
		C	Telling Time		
		D	Adding Units of Time		
		E	Perimeter		
			Unit 5 Review		
			Unit 5 Final Test		

5. Basis of Student Assessment (Weighting)

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.

6. Grading System
(If any changes are made to this part, then the Approved Course description must also be changed and sent through the approval process.)

A+	90–100%	B+	77–79%	C+	65–69%
A	85–89%	B	73–76%	C	60–64%
A−	80–84%	B−	70–72%	IP	in progress

7. Recommended Materials or Services to Assist Students to Succeed Throughout the Course

LEARNING SUPPORT AND SERVICES FOR STUDENTS

There are a variety of services available for students to assist them throughout their learning. This information is available in the College calendar, Registration, or on the College website *http://camosun.ca/services/*

ACADEMIC CONDUCT POLICY

It is the student's responsibility to become familiar with the content of the Academic Conduct Policy. The policy is available in each School Administration Office, Registration, and on the College website *http://camosun.ca/about/policies/education-academic/e-2-student-services-&-support/e-2.5.pdf*

ACADEMIC PROGRESS POLICY

The Academic Progress Policy designed to enhance a learner's likelihood of success. Students should become familiar with the content of this policy, The policy is available in each School Administration Office, Registration, and on the College website *http://camosun.ca/about/policies/education-academic/e-1-programming-&-instruction/e-1.1.pdf*