



**School of Access**

**Community Learning Partnerships**

**Fundamental Mathematics 3**

**MATH 023 BS23  
Fall 2012 - Course Outline**

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**This course outline is available online at**

**<http://faculty.camosun.ca/martinbuck>**

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

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**Calendar Description**

Offered in an individualized, small-class format, 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. See <http://camosun.ca/learn/calendar/current/web/math.html>

**Prerequisite(s):** Math 022

**Exit Grade:** B (73%) or better is necessary to achieve mastery level and continue into MATH 024.

**1. Required Materials**

- (a) textbook: *Adult Literacy Fundamental Mathematics Book Two*
- (b) Access Code for online classroom at publisher's website at <http://mathxl.com>. This code is available purchase in the college bookstore. It can also be purchased online at the above website. See <http://mathxl.com/support/system.htm> for system requirements.

**2. Instructor Information**

- (a) Instructor -- Martin Buck
- (b) Office hours – Via the online classroom below, which is available 24 hours a day and seven days a week. Expect a response within one school day. Face-to-face and phone appointments with the instructor are available by prior arrangement.
- (c) Location – The Songhees Learning Centre at 1500B Admirals Road. The online classroom is available to registered students at <http://mathxl.com>.
- (d) Instructor's website <http://faculty.camosun.ca/martinbuck>
- (e) E-mail [martin@lwebs.ca](mailto:martin@lwebs.ca)

**Important Dates:** See <http://camosun.ca/learn/calendar/current/pdf/events.pdf>

### 3. Intended Learning Outcomes

- Use math vocabulary related to multiplying and dividing whole numbers, metric units, area, and perimeter.
- Multiply whole numbers with and without carrying.
- Divide whole numbers with and without remainders.
- Estimate products and quotients.
- Determine whether a number is divisible by 2, 3, 5, 9, and 10.
- Use multiplication or division to solve multi-step application problems.
- Solve multi-operation application problems.
- Calculate the area and 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.

Complete ABE Fundamental Mathematics learning outcomes at ABE Articulation Handbook website <http://www.aved.gov.bc.ca/abe/handbook.pdf>

### 4. Course Content and Schedule

The course is designed to be completed in one term. However, it can be completed sooner. You will need to spend 10 □ 15 hours per week on your math.

- 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.

unit	topic	MATH 023 course content – Book Three	date
1		<b>Number Sense</b>	
	A	Emotions and Learning	
2		<b>Multiplication</b>	
	A	Multiplying Larger Numbers	
	B	Two and Three Digit Multipliers	
	C	Estimating Products	
	D	Multiplication Problems	

		Unit 2 Review		
		Unit 2 Final Test		
<b>3</b>		<b>Division</b>		
	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		

unit	topic	MATH 023 course content – Book Three	date
<b>4</b>		<b>Change, Time and the Metric System</b>	
	A	Counting to Make Change	
	B	Making Change	
	C	Converting Units of Time	
	D	The Metric System	
		Unit 4 Review	
		Unit 4 Final Test	

### 5. Basis of Student Assessment (Weighting)

The MATH 021 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-2.5.1.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>

### **Academic Policies**

There is an 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 web site in the Policy Section. For information on this and all Camosun College's academic policies including grading, see the webpage at

<http://camosun.ca/learn/becoming/policies.html>