



**CAMOSUN COLLEGE**  
**School of Access**  
***Academic and Career Foundations Department***

***MATH 024 Fundamental Mathematics 4***

**COURSE OUTLINE**

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***The Approved Course Description is available on the College website***  
[http://camosun.ca/learn/programs/academic-upgrading/what-youll-learn/upgrading.html#tabs-fundamental\\_a](http://camosun.ca/learn/programs/academic-upgrading/what-youll-learn/upgrading.html#tabs-fundamental_a)

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**2. Intended Learning Outcomes**

Complete ABE Fundamental Mathematics learning outcomes at ABE Articulation Handbook website  
[http://www2.gov.bc.ca/assets/gov/education/post-secondary-education/adult-education/2016-17\\_abe\\_guide.pdf](http://www2.gov.bc.ca/assets/gov/education/post-secondary-education/adult-education/2016-17_abe_guide.pdf)

On completion of the course students will be able to...

- Use math vocabulary related to place value, adding, subtracting, multiplying, and dividing decimals to 10,000ths.
- Identify place value and compare the magnitude of decimals.
- Round decimals to a given place.
- Add, subtract, multiply, and divide decimals.
- Use addition, subtraction, multiplication, or division of decimals to solve application problems.
- Solve multi-operation application problems involving decimals.
- Measure length, mass, capacity, and temperature using metric and imperial devices.
- Convert measurements within the metric system.
- Add and subtract metric measurements.
- 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 Four*

**Supplementary Materials**

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

## 4. 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 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 Test
- review your test results with the instructor, and proceed to the next unit if you score 75% or better, or rewrite the test if you score less than 75%
- calculators may not be used on 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 024 course content – Book Four	date
<b>1</b>		<b>Working With Decimals</b>	
	A	Part of the Whole Thing	
	B	Reading and Writing Decimals	
	C	Comparing Decimals	
	D	Review: Rounding Whole Numbers	
		Unit 1 Review	
		Unit 1 Test	
<b>2</b>		<b>Adding and Subtracting Decimals</b>	
	A	Adding Decimals	
	B	Subtracting Decimals	
	C	Bookkeeping	
		Unit 2 Review	
		Unit 2 Test	
<b>3</b>		<b>Multiplying Decimals</b>	
	A	Multiplying Decimals	
		Unit 3 Review	
		Unit 3 Test	
<b>4</b>		<b>Dividing Decimals</b>	
	A	Dividing Decimals	
		Unit 4 Review	
		Unit 4 Test	
<b>5</b>		<b>Using Decimals in Real Life</b>	
	A	Unit Pricing	
	B	Decimal Problems	
		Unit 5 Review	
		Unit 5 Test	
<b>6</b>		<b>Measurement</b>	
	A	Why Metric?	
	B	The Prefixes	
	C	Measuring	
	D	Conversion Within the Metric System	
		Unit 6 Review	
		Unit 6 Final Test	

## 5. Basis of Student Assessment (Weighting)

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.

## 6. Grading System

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. Learning Support and Services for Students

### ACADEMIC UPGRADING HELP CENTRE (CBA 109)

<http://camosun.ca/services/help-centres/math.html>

Help with coursework, reference & learning materials library,  
computers & printer, quiet testing & study areas

There are many other Camosun services available to help you succeed in and out of the classroom, including education planning, learning and personal support, campus life, work and housing, and getting around. This information is available at Registration or the College web site

<http://camosun.ca/services/>

## 8. 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/get-support.html#urgent>

### 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/>

### 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.

### A. GRADING SYSTEMS <http://www.camosun.bc.ca/policies/policies.php>

The following two grading systems are used at Camosun College:

## 1. Standard Grading System (GPA)

Percentage	Grade	Description	Grade Point Equivalency
90-100	A+		9
85-89	A		8
80-84	A-		7
77-79	B+		6
73-76	B		5
70-72	B-		4
65-69	C+		3
60-64	C		2
50-59	D		1
0-49	F	Minimum level has not been achieved.	0

## 2. Competency Based Grading System (Non GPA)

This grading system is based on satisfactory acquisition of defined skills or successful completion of the course learning outcomes

Grade	Description
COM	The student has met the goals, criteria, or competencies established for this course, practicum or field placement.
DST	The student has met and exceeded, above and beyond expectation, the goals, criteria, or competencies established for this course, practicum or field placement.
NC	The student has not met the goals, criteria or competencies established for this course, practicum or field placement.

## B. 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://www.camosun.bc.ca/policies/E-1.5.pdf> for information on conversion to final grades, and for additional information on student record and transcript notations.

Temporary Grade	Description
I	<i>Incomplete:</i> A temporary grade assigned when the requirements of a course have not yet been completed due to hardship or extenuating circumstances, such as illness or death in the family.
IP	<i>In progress:</i> A temporary grade assigned for courses that are designed to have an anticipated enrollment that extends beyond one term. No more than two IP grades will be assigned for the same course.
CW	<i>Compulsory Withdrawal:</i> A temporary grade assigned by a Dean when an instructor, after documenting the prescriptive strategies applied and consulting with peers, deems that a student is unsafe to self or others and must be removed from the lab, practicum, worksite, or field placement.