



**CAMOSUN COLLEGE**  
**School of Access**  
**Academic and Career Foundations Department**  
**MATH 024 Fundamental Mathematics 4**  
**COURSE OUTLINE**

*The Approved Course Description is available on the College website <http://www.camosun.ca/learn/calendar/current/>*

### 1. Instructor Information

**Instructor:** Alison Bowe  
**Office:** CBA 150

**Voicemail:** (250) 370-4911  
**e-mail:** [bowe@camosun.ca](mailto:bowe@camosun.ca)

**Text only:** 250.881.0264

### *September - October 2016*

| Time          | Monday                      | Tuesday                                | Wednesday                   | Thursday                    | Friday        |
|---------------|-----------------------------|--|-----------------------------|-----------------------------|---------------|
| 8:30 – 10:00  | In Class<br>S02<br>CBA 117  |  | In Class<br>S02<br>CBA 117  | Chairs<br>Meeting           |               |
| 10:00 – 11:30 | In Class<br>S02<br>CBA 117  | Help Centre<br>CBA 109<br>10:00 - Noon | In Class<br>S02<br>CBA 117  | Chairs<br>Meeting           |               |
| 11:30 – 12:30 | Office Hours<br>CBA 150/109 |  | Office Hours<br>CBA 150/109 |                             |               |
| 12:30 – 1:30  | Office Hours<br>CBA 150/109 | In Class<br>S04<br>CBA 117             | Office Hours<br>CBA 150/109 | In Class<br>S04<br>CBA 117  | Dept. Meeting |
| 1:30- 3:30    |                             | In Class<br>S04<br>CBA 117             |                             | In Class<br>S04<br>CBA 117  | Dept. Meeting |
| 3:30 – 4:30   |                             | Office Hours<br>CBA 150/109            |                             | Office Hours<br>CBA 150/109 |               |

### 2. Intended Learning Outcomes

(complete ABE Intermediate Mathematics learning outcomes at ABE Articulation Handbook website [http://www.bctransferguide.ca/docs/ABE\\_Artic\\_Guide\\_15-16%20Final.pdf](http://www.bctransferguide.ca/docs/ABE_Artic_Guide_15-16%20Final.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  
 (d) Math videos as supplied by instructor

### 4. Course Schedule, Content and Instructions

#### 2016F Semester classes run from September 6 - December 15, 2016

|                        |                |                               |
|------------------------|----------------|-------------------------------|
| Other important dates: | October 10     | Holiday, College Closed       |
|                        | Nov 8          | Withdrawal Deadline           |
|                        | Nov 11         | Holiday, College Closed       |
|                        | December 10    | Last day of classes           |
|                        | Dec 24 – Jan 2 | Holiday Break, College Closed |

- (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 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 Final Test                      |      |
| <b>2</b> |       | <b>Adding and Subtracting Decimals</b> |      |
|          | A     | Adding Decimals                        |      |
|          | B     | Subtracting Decimals                   |      |
|          | C     | Bookkeeping                            |      |
|          |       | Unit 2 Review                          |      |
|          |       | Unit 2 Final Test                      |      |
| <b>3</b> |       | <b>Multiplying Decimals</b>            |      |
|          | A     | Multiplying Decimals                   |      |
|          |       | Unit 3 Review                          |      |
|          |       | Unit 3 Final Test                      |      |

| unit     | topic | MATH 024 course content – Book Four | date |
|----------|-------|-------------------------------------|------|
| <b>4</b> |       | <b>Dividing Decimals</b>            |      |
|          | A     | Dividing Decimals                   |      |
|          |       | Unit 4 Review                       |      |
|          |       | Unit 4 Final Test                   |      |
| <b>5</b> |       | <b>Using Decimals in Real Life</b>  |      |
|          | A     | Unit Pricing                        |      |
|          | B     | Decimal Problems                    |      |
|          |       | Unit 5 Review                       |      |
|          |       | Unit 5 Final 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 024 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)

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 Policies

### ACADEMIC PROGRESS

The purpose of this policy is to enhance a learner's likelihood of success, and to encourage the learner to use College resources effectively.

<http://camosun.ca/learn/calendar/current/procedures.html>

### GRADING

The purpose of this policy is to ensure that grading and promotion are consistent and fair.

<http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.5.pdf>

### STUDENT CONDUCT

The purpose of this policy is to provide clear expectations of appropriate academic and non-academic student conduct, and to establish processes for resolution of conduct issues or the imposition of sanctions for inappropriate conduct.

<http://camosun.ca/about/policies/education-academic/e-2-student-services-and-support/e-2.5.pdf>