



School of Access
Community Learning Partnerships
Fundamental Mathematics 5
MATH 025 BS18
Winter 2012 - Course Outline

This course outline is available online at <http://faculty.camosun.ca/martinbuck>

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

Calendar Description

Offered in an individualized, small-class format, MATH 025 is the fifth 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: simplifying, adding, subtracting, multiplying, and dividing fractions and mixed numbers. See <http://camosun.ca/learn/calendar/current/web/math.html>

Prerequisite(s): Math 024

Exit Grade: B (73%) or better is necessary to achieve mastery level and continue into MATH 026.

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

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

3. Intended Learning Outcomes

- Use math vocabulary related to simplifying, adding, subtracting, multiplying, and dividing fractions and mixed numbers.
- Simplify, add, subtract, multiply, and divide fractions and mixed numbers.
- Convert between fractions and decimals, and compare the magnitude of fractions and decimals.
- Use addition, subtraction, multiplication, or division of fractions and mixed numbers to solve application problems.
- 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 025 course content – Book Five | date |
|----------|-------|---|------|
| 1 | | Common Fractions | |
| | A | Introducing Common Fractions | |
| | B | Common Fractions | |
| | C | When to Use a Fraction or a Decimal | |
| | | Unit 1 Review | |
| | | Unit 1 Final Test | |
| 2 | | Equivalent Fractions | |
| | A | Equivalent Fractions | |
| | | Unit 2 Review | |
| | | Unit 2 Final Test | |
| 3 | | Multiplying and Dividing Fractions | |
| | A | Multiplying Common Fractions | |
| | B | Dividing Common Fractions | |
| | | Unit 3 Review | |
| | | Unit 3 Final Test | |
| 4 | | Adding and Subtracting Fractions | |
| | A | Adding Common Fractions | |
| | B | Subtracting Common Fractions | |
| | C | Problems Using Common Fractions | |
| | | Unit 4 Review | |
| | | Unit 4 Final Test | |

| unit | topic | MATH 025 course content – Book Five | date |
|------|-------|--------------------------------------|------|
| 5 | | Common Fractions and Decimals | |
| | A | Common Fractions and Decimals | |
| | B | Comparing Fractions and Decimals | |
| | | Unit 5 Review | |
| | | Unit 5 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>