



CAMOSUN COLLEGE
School of Access
Academic and Career Foundations Department

MATH 038 Fundamental Math for Trades
Winter 2012 (January 9 – April 20) Section S06/S07/08

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: 1–5 pm Mon, 1–3 pm Wed/Thu; other times available
- (c) Help Centre hours: 100–250 pm Tue 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 the end of the course, students will be able to:

1. demonstrate knowledge and skills in using the principles and operations of various math topics such as arithmetic, measurement, graphs, formulas, and geometry
2. apply a variety of strategies in solving math-related problems
3. apply knowledge and skills in various math topics to solve problems related to particular Entry Level Trades and Pre-Employment Programs (except Culinary Arts and Electrical)
4. use knowledge of various math topics as a basis for further study in Entry Level Trades and Pre-Employment Programs

3. Required Materials

- (a) textbook: *Line B, Solve Mathematical Problems, Trades Common Core*
- (b) scientific calculator
- (c) optional supplementary materials from MATH 032/033/034

4. Course Content and Schedule

Self-paced Instructions

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 work on this course. Students generally need to spend 5–15 hours of study time per week, either at the college or at home, to complete a math course within 4 months.

The table below lists the eleven competencies or chapters in the Line B text that are required for each Entry Level Trades or Pre-Employment Program (except Culinary Arts and Electrical). Follow these steps to complete each competency:

1. skip the Pre-Test
2. study the explanations and examples
3. answer and check **all** questions in the order listed in the table below
4. ask the instructor for help whenever you need it

To prepare for the Final Test, write the Practice Test and review your results with the instructor.

| MATH 038 course content | Line B page # | question # | | |
|--|---------------|------------|--|--|
| Competency B-1 – Whole Numbers | | | | |
| | 5 | 1-4 | | |
| | 3 | 1-5 | | |
| | 7 | 1-5 | | |
| | | | | |
| Competency B-2 – Fractions | | | | |
| | 15 | 1-4 | | |
| | 17 | 1-4 | | |
| | 20 | 1-4 | | |
| | 21 | 1-5 | | |
| | 11 | 1-20 | | |
| | 23 | 1-15 | | |
| | | | | |
| Competency B-3 – Decimals | | | | |
| | 32 | 1-2 | | |
| | 33 | 1-2 | | |
| | 37 | 1-5 | | |
| | 29 | 1-10 | | |
| | 38 | 1-15 | | |
| | | | | |
| Competency B-4 – Metric and Imperial Measurements | | | | |
| | 46 | 1-2 | | |
| | 49 | 1-6 | | |
| | 43 | 1-2 | | |
| | 50 | 1-2 | | |
| | | | | |

| MATH 038 course content | Line B page # | question # | | |
|---|--------------------------|-----------------------|--|--|
| Competency B-5 – Ratio and Proportion | | | | |
| | 59 | 1–12 | | |
| | 55 | 1–10 | | |
| | 62 | 1–10 | | |
| | | | | |
| Competency B-6 – Percent | | | | |
| | 69 | 1–4 | | |
| | 73 | 1–4 | | |
| | 67 | 1–5 | | |
| | 74 | 1–5 | | |
| | | | | |
| Competency B-7 – Powers and Roots | | | | |
| | 82 | 1 | | |
| | 84 | 1 | | |
| | 79 | 1–3 | | |
| | 85 | 1–3 | | |
| | | | | |
| Competency B-8 – Graphs | | | | |
| | 93 | 1–5 | | |
| | 96 | 1–2 | | |
| | 89 | 1–5 | | |
| | 98 | A–E | | |
| | | | | |
| Competency B-9 – Formulas | | | | |
| | 111 | 1–5 | | |
| | 105 | 1–7 | | |
| | 115 | 1–5 | | |
| | | | | |
| Competency B-10 – Perimeters, Areas, and Volumes | | | | |
| | 125 | 1–8 | | |
| | 121 | 1–8 | | |
| | 129 | 1–8 | | |
| | | | | |
| Competency B-11 – Angles and Triangles | | | | |
| | 142 | 1–4 | | |
| | 135 | 1–6 | | |
| | 151 | 1–6 | | |
| | | | | |
| MATH 038 Practice Test | | | | |
| MATH 038 Final Test | | | | |

5. Basis of Student Assessment (Weighting)

The course grade is either COM (complete) or NC (not complete), and is based on the student's score on the Final Test, which covers all of the required units (passing score 75%).

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

COM complete NC not complete

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>