



CAMOSUN COLLEGE
School of Access
Academic and Career Foundations Department

MATH 038 Fundamental Math for Trades
S05
Fall 2014, Sept.2-Dec 12, 2014
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

My Schedule

Sept. 2-Dec. 12, 2014

| <u>Nicolas Mai Ph: 250-370 – 3848 (Int)</u> | | | | | |
|--|------------------------|------------------------|------------------------|------------------------|-----------------------------------|
| Office: Interurban CBA 149 | | | | | |
| Time | Monday | Tuesday | Wednesday | Thursday | Friday |
| 8:30-11:20 | Office CBA 149 | Math S03 CBA 117 | Office CBA 149 | Office CBA 149 | Math S03 CBA 117 |
| 11:30-12:30 | Lunch | Lunch | Help Centre CBA 109 | Help Centre CBA 109 | Lunch |
| 12:30-3:20 | Math S05 CBA 117 | Math S04 CBA 145 | Math S05 CBA 117 | Math S04 CBA 145 | Staff Meeting And Workshops |
| 3:30-4:30 | Office CBA 149 | Office CBA 149 | Office CBA 149 | Office CBA 149 | |
| <u>e-mail: mai@camosun.bc.ca</u> | | | | | |

OFFICE HOURS BY APPOINTMENT

2. Intended Learning Outcomes

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

At the end of the course, students will be able to:

1. use mathematics at an ABE Fundamental level with competence
2. demonstrate knowledge and skills in using the principles and operations of basic arithmetic, measurement, and data analysis
3. apply a variety of strategies in solving math-related problems
4. apply knowledge and skills in basic arithmetic, data analysis, measurement, and geometry to solve problems related to employment, consumerism, personal finance, and other aspects of daily life
5. use knowledge and skills in arithmetic, data analysis, measurement, and geometry as a basis for further study in algebra, geometry, trades math, and other 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 | question | | |
| | page # | # | | |
| 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://www.camosun.bc.ca/learning-skills/index.html>

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://www.camosun.bc.ca/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.bc.ca/policies/Education-Academic/E-1-Programming-&-Instruction/E-1.1.pdf>