



Math 022
Fundamental Mathematics 2
Fall 2018

COURSE OUTLINE

The calendar description is available on the web @ <http://camosun.ca/learn/calendar/current/web/math.html>

Ω Please note: This outline will not be kept indefinitely. It is recommended students keep this outline for their records, especially to assist in transfer credit to post-secondary institutions.

1. Instructor Information

| | |
|------------------|--|
| (a) Instructor | Pooja Gupta |
| (b) Office hours | Variable, see the attached information sheet |
| (c) Location | Saanich Adult Education Centre / CBA 149 |
| (d) Phone | 250-370-3848 Alternative: |
| (e) E-mail | guptap@camosun.ca (Email is preferred over phone) |
| (f) Website | http://camosun.ca/ |

2. Intended Learning Outcomes

Complete ABE Fundamental Mathematics learning outcomes at ABE Articulation Handbook website https://www2.gov.bc.ca/assets/gov/education/post-secondary-education/adult-education/abe_guide.pdf

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

- Use math vocabulary related to multiplication, perimeter, place value, estimating, ordering, adding, and subtracting whole numbers to 1,000,000.
- Identify place value and compare the magnitude of whole numbers.
- Round whole numbers to a given place.
- Add whole numbers with and without carrying.
- Subtract whole numbers with and without borrowing.
- Estimate sums and differences.
- Memorize the multiplication facts and multiply two whole numbers to 10 x 10.
- Write numbers as multiplication or repeated addition.
- Use addition or subtraction to solve multi-step application problems.
- Use multiplication to solve one-step application problems.
- Add and subtract time measurements, and convert between 12 and 24-hour notation.
- Calculate the perimeter of squares and rectangles.
- 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 Two*

Supplementary Materials

(b) Three-ring binder, lined paper, graph paper, pencils, eraser.

4. Course Content and Schedule

- 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 022 course content – Book Two | date |
|----------|-------------|--|------|
| 1 | | Number Sense | |
| | A | Emotions and Learning | |
| | B | Place Value | |
| | C | Expanded Form | |
| | D | Ordering Numerals | |
| | E | Rounding Numbers | |
| | | Unit 1 Review | |
| | | Unit 1 Test | |
| 2 | | Addition | |
| | A | Addition | |
| | B | Addition with Carrying | |
| | C | Estimating Answers in Addition | |
| | | Unit 2 Review | |
| | | Unit 2 Test | |
| 3 | | Subtraction | |
| | A | Subtraction | |
| | B | Subtraction of Larger Numbers | |
| | C | Renaming | |
| | D | Subtraction with Borrowing | |
| | E | Estimating Answers in Subtraction | |
| | F | Problem Solving | |
| | | Unit 3 Review | |
| | Unit 3 Test | | |
| 4 | | Multiplication | |
| | A | Introduction and Multiplication Facts | |
| | B | Multiplying by 10, 100 and 1000 | |
| | C | Word Problems | |
| | | Unit 4 Review | |
| | Unit 4 Test | | |
| 5 | | Making Change, Time & Perimeter | |
| | A | Counting to Make Change | |
| | B | Making Change | |
| | C | Telling Time | |
| | D | Adding Units of Time | |

| | | | | |
|--|---|---------------|--|--|
| | E | Perimeter | | |
| | | Unit 5 Review | | |
| | | Unit 5 Test | | |

5. Basis of Student Assessment (Weighting)

The MATH 022 course grade is the average of all unit Final Test scores.

Note: Students with a record of poor attendance OR poor progress may be restricted from re-registering in Community Learning Partnerships 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.)

(Mark with "X" in box below to show appropriate approved grading system – see last page of this template.)

Standard Grading System (GPA)

Competency Based Grading System

7. Recommended Resources to Assist Students to Succeed Throughout the Course

**Ask your classroom instructional assistant FIRST and then you could also go to:
ACADEMIC UPGRADING HELP CENTRES (CBA 109 and E342)**
<http://camosun.ca/services/help-centres/math.html>

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. |