

## COURSE SYLLABUS

COURSE TITLE: Math 024 Fundamental Math 4

CLASS SECTION: S06

TERM: Summer 2021

COURSE CREDITS: 0

DELIVERY METHOD(S): Online



Camosun College campuses are located on the traditional territories of the Ləkʷəŋən and W̱SÁNEĆ peoples. We acknowledge their welcome and graciousness to the students who seek knowledge here.

Learn more about Camosun's [Territorial Acknowledgement](#).

The COVID-19 pandemic has presented many challenges, and Camosun College is committed to helping you safely complete your education. Following guidelines from the Provincial Health Officer, WorkSafe BC, and the B.C. Government to ensure the health and wellbeing of students and employees, Camosun College is providing you with every possible protection to keep you safe. Our measures include COVID Training for students and employees, health checks, infection control protocols including sanitization of spaces, PPE and ensuring physical distancing. For details on these precautions please follow this link: <http://camosun.ca/covid19/faq/covid-faqs-students.html>. However, if you're at all uncomfortable being on campus, please share your concerns with your Instructor. If needed, alternatives will be discussed.

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*Camosun College requires mandatory attendance for the first class meeting of each course. If you do not attend, and do not provide your instructor with a reasonable explanation in advance, you will be removed from the course and the space offered to the next waitlisted student.*

## INSTRUCTOR DETAILS

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NAME: Richard Perry

EMAIL: [perryr@camosun.bc.ca](mailto:perryr@camosun.bc.ca)

OFFICE: n/a

HOURS: M-F, 10:30 – 3:30

*As your course instructor, I endeavour to provide an inclusive learning environment. However, if you experience barriers to learning in this course, do not hesitate to discuss them with me. Camosun College is committed to identifying and removing institutional and social barriers that prevent access and impede success.*

## CALENDAR DESCRIPTION

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Students will extend a foundation of basic mathematics skills, concepts, vocabulary, and problem-solving strategies to prepare them to meet personal, career, or academic goals. Students will perform functions related to the following topics: place value, rounding, adding, subtracting, multiplying, and dividing decimals, metric measurement. Students will extend automaticity and estimation skills to increase their confidence and competence in mathematics.

Prerequisites

All of:

- COM in [ENGL 023](#)
- C in [MATH 023](#)

Or all of:

- COM in [ELD 052](#)
- COM in [ELD 054](#)
- C in [MATH 023](#)

## COURSE LEARNING OUTCOMES / OBJECTIVES

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(complete ABE Fundamental Mathematics learning outcomes at ABE Articulation Handbook website <https://www.bccat.ca/pubs/2018-19%20ABE%20Articulation%20Guide.pdf> )

| Learning Outcome<br><i>Students will be able to . . .</i>                               | Sub-outcomes / skills<br><i>By achieving this broader outcome, students will demonstrate that they can also . . .</i>   |
|---|---|
| 1. Evaluate decimal expressions using addition subtraction, multiplication and division | <ul style="list-style-type: none"><li>• Read and write decimals</li><li>• Apply or use examples of keywords: decimal, decimal place value, per, of, by</li><li>• Convert between dollars and cents</li><li>• Compare decimal values</li><li>• Translate word problems into mathematical expressions and/ or equations</li><li>• Convert metric units without a conversion chart</li><li>• Apply and use metric examples of length, mass, capacity and temperature</li><li>• Calculate perimeter and area of squares and rectangles</li><li>• Add and subtract same units and mixed metric units</li></ul> |
| 2. Identify place value to 10 000ths  |   |
| 3. Round decimal numbers to a given place value   |   |
| 4. Order decimal numbers  |   |
| 5. Evaluate multi-step decimal expressions  |   |
| 6. Solve word problems  |   |
| 7. Convert measurements within the metric system  |   |

The learning outcomes in this course meet those for Adult Literacy Fundamental Mathematics (ALFM) in the [BC ABE Articulation Handbook 2020/21 Edition](#). Please refer to the [guide](#) for relevant sample tasks.

## REQUIRED MATERIALS & RECOMMENDED PREPARATION / INFORMATION

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(a) textbook: *Adult Literacy Fundamental Mathematics Book Four*

### Supplementary Materials

(b) additional math 024 materials can be found here: <https://sites.camosun.ca/acf-math/math-021-026/>

(c) three-ring binder, lined paper, graph paper

(d) pencils, eraser, ruler, highlighter, file cards

## COURSE SCHEDULE, TOPICS, AND ASSOCIATED PREPARATION / ACTIVITY / EVALUATION

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### *Self-paced Instructions*

- (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

| 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                      |      |  |

|          |   |                                     |  |  |
|----------|---|-------------------------------------|--|--|
|          |   |                                     |  |  |
| <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                   |  |  |

Students registered with the Centre for Accessible Learning (CAL) who complete quizzes, tests, and exams with academic accommodations have booking procedures and deadlines with CAL where advanced notice is required. Deadlines can be reviewed on the [CAL exams page](http://camosun.ca/services/accessible-learning/exams.html). <http://camosun.ca/services/accessible-learning/exams.html>

## EVALUATION OF LEARNING

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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.

| DESCRIPTION  | WEIGHTING   |
|--------------|-------------|
| Unit 1       | 16.7%       |
| Unit 2       | 16.7%       |
| Unit 3       | 16.7%       |
| Unit 4       | 16.7%       |
| Unit 5       | 16.7%       |
| Unit 6       | 16.7%       |
| <b>TOTAL</b> | <b>100%</b> |

If you have a concern about a grade you have received for an evaluation, please come and see me as soon as possible. Refer to the [Grade Review and Appeals](http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.14.pdf) policy for more information.

<http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.14.pdf>

## COURSE GUIDELINES & EXPECTATIONS

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The course consists of 6 hours of class time and 4 hours of lab time per week. Lab time is generally spent in the Help Centre where instructional resources are available. 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.

## SCHOOL OR DEPARTMENTAL INFORMATION

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

|           |         |           |        |           |                    |          |        |
|-----------|---------|-----------|--------|-----------|--------------------|----------|--------|
| <i>A+</i> | 90–100% | <i>B+</i> | 77–79% | <i>C+</i> | 65–69%             | <i>D</i> | 50–59% |
| <i>A</i>  | 85–89%  | <i>B</i>  | 73–76% | <i>C</i>  | 60–64%             | <i>F</i> | 40–49% |
| <i>A–</i> | 80–84%  | <i>B–</i> | 70–72% | <i>IP</i> | <i>in progress</i> |          |        |

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

for information on conversion to final grades, and for additional information on student record and transcript notations.

## STUDENT RESPONSIBILITY

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Enrolment at Camosun assumes that the student will become a responsible member of the College community. As such, each student will display a positive work ethic, assist in the preservation of College property, and assume responsibility for their education by researching academic requirements and policies; demonstrating courtesy and respect toward others; and respecting expectations concerning attendance, assignments, deadlines, and appointments.

## SUPPORTS AND SERVICES FOR STUDENTS

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Camosun College offers a number of services to help you succeed in and out of the classroom. For a detailed overview of the supports and services visit <http://camosun.ca/students/>.

| Support Service                     | Website   |
|-------------------------------------|---|
| Academic Advising                   | <a href="http://camosun.ca/advising">http://camosun.ca/advising</a>                       |
| Accessible Learning                 | <a href="http://camosun.ca/accessible-learning">http://camosun.ca/accessible-learning</a> |
| Counselling                         | <a href="http://camosun.ca/counselling">http://camosun.ca/counselling</a>                 |
| Career Services                     | <a href="http://camosun.ca/coop">http://camosun.ca/coop</a>                               |
| Financial Aid and Awards            | <a href="http://camosun.ca/financialaid">http://camosun.ca/financialaid</a>               |
| Help Centres (Math/English/Science) | <a href="http://camosun.ca/help-centres">http://camosun.ca/help-centres</a>               |
| Indigenous Student Support          | <a href="http://camosun.ca/indigenous">http://camosun.ca/indigenous</a>                   |
| International Student Support       | <a href="http://camosun.ca/international/">http://camosun.ca/international/</a>           |
| Learning Skills                     | <a href="http://camosun.ca/learningskills">http://camosun.ca/learningskills</a>           |
| Library                             | <a href="http://camosun.ca/services/library/">http://camosun.ca/services/library/</a>     |
| Office of Student Support           | <a href="http://camosun.ca/oss">http://camosun.ca/oss</a>                                 |
| Ombudsperson                        | <a href="http://camosun.ca/ombuds">http://camosun.ca/ombuds</a>                           |
| Registration                        | <a href="http://camosun.ca/registration">http://camosun.ca/registration</a>               |
| Technology Support                  | <a href="http://camosun.ca/its">http://camosun.ca/its</a>                                 |
| Writing Centre                      | <a href="http://camosun.ca/writing-centre">http://camosun.ca/writing-centre</a>           |

If you have a mental health concern, please contact Counselling to arrange an appointment as soon as possible. Counselling sessions are available at both campuses during business hours. If you need urgent support after-hours, please contact the Vancouver Island Crisis Line at 1-888-494-3888 or call 911.

## COLLEGE-WIDE POLICIES, PROCEDURES, REQUIREMENTS, AND STANDARDS

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### Academic Accommodations for Students with Disabilities

The College is committed to providing appropriate and reasonable academic accommodations to students with disabilities (i.e. physical, depression, learning, etc). If you have a disability, the [Centre for Accessible Learning](http://camosun.ca/accessible-learning/) (CAL) can help you document your needs, and where disability-related barriers to access in your courses exist, create an accommodation plan. By making a plan through CAL, you can ensure you have the appropriate academic accommodations you need without disclosing your diagnosis or condition to course instructors. Please visit the CAL website for contacts and to learn how to get started:

<http://camosun.ca/services/accessible-learning/>

### Academic Integrity

Please visit <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.13.pdf> for policy regarding academic expectations and details for addressing and resolving matters of academic misconduct.

### Academic Progress

Please visit <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.1.pdf> for further details on how Camosun College monitors students' academic progress and what steps can be taken if a student is at risk of not meeting the College's academic progress standards.

### Course Withdrawals Policy

Please visit <http://camosun.ca/about/policies/education-academic/e-2-student-services-and-support/e-2.2.pdf> for further details about course withdrawals. For deadline for fees, course drop dates, and tuition refund, please visit <http://camosun.ca/learn/fees/#deadlines>.

### Grading Policy

Please visit <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.5.pdf> for further details about grading.

### Grade Review and Appeals

Please visit <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.14.pdf> for policy relating to requests for review and appeal of grades.

### Mandatory Attendance for First Class Meeting of Each Course

Camosun College requires mandatory attendance for the first class meeting of each course. If you do not attend, and do not provide your instructor with a reasonable reason in advance, you will be removed from the course and the space offered to the next waitlisted student. For more information, please see the "Attendance" section under "Registration Policies and Procedures" (<http://camosun.ca/learn/calendar/current/procedures.html>) and the Grading Policy at <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.5.pdf>.

### Medical / Compassionate Withdrawals

Students who are incapacitated and unable to complete or succeed in their studies by virtue of serious and demonstrated exceptional circumstances may be eligible for a medical/compassionate withdrawal. Please visit <http://camosun.ca/about/policies/education-academic/e-2-student-services-and-support/e-2.8.pdf> to learn more about the process involved in a medical/compassionate withdrawal.

### Sexual Violence and Misconduct

Camosun is committed to creating a campus culture of safety, respect, and consent. Camosun's Office of Student Support is responsible for offering support to students impacted by sexual violence. Regardless of when or where the sexual violence or misconduct occurred, students can access support at Camosun. The Office of Student Support will make sure students have a safe and private place to talk and will help them understand what supports are available and their options for next steps. The Office of Student Support respects a student's right to choose what is right for them. For more information see Camosun's Sexualized Violence and Misconduct Policy: <http://camosun.ca/about/policies/education-academic/e-2-student-services->

and-support/e-2.9.pdf and [camosun.ca/sexual-violence](http://camosun.ca/sexual-violence). To contact the Office of Student Support: [oss@camosun.ca](mailto:oss@camosun.ca) or by phone: 250-370-3046 or 250-3703841

### Student Misconduct (Non-Academic)

Camosun College is committed to building the academic competency of all students, seeks to empower students to become agents of their own learning, and promotes academic belonging for everyone. Camosun also expects that all students to conduct themselves in a manner that contributes to a positive, supportive, and safe learning environment. Please review Camosun College's Student Misconduct Policy at <http://camosun.ca/about/policies/education-academic/e-2-student-services-and-support/e-2.5.pdf> to understand the College's expectations of academic integrity and student behavioural conduct.

**Changes to this Syllabus:** Every effort has been made to ensure that information in this syllabus is accurate at the time of publication. The College reserves the right to change courses if it becomes necessary so that course content remains relevant. In such cases, the instructor will give the students clear and timely notice of the changes.