COURSE SYLLABUS

COURSE TITLE: Math075 | College Prep – Applied Math

CLASS SECTION: D01

TERM: Spring 2025

DELIVERY METHOD(S): Online

Camosun College campuses are located on the traditional territories of the Lək̓ʷəŋən and W̱SÁNEĆ peoples. We acknowledge their welcome and graciousness to the students who seek knowledge here.
Learn more about Camosun's Territorial Acknowledgement.

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

NAME: Dr. Muhammad Awais

EMAIL: awaism@camosun.bc.ca

OFFICE HOURS: Tuesday & Thursday | 7:00 - 7:50 PM | Zoom Link: https://uvic.zoom.us/j/82860516696

CLASS TIME: Tuesday & Thursday | 5:00 - 6:50 PM | Zoom Link: https://uvic.zoom.us/j/82860516696

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

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

REQUIRED MATERIALS & RECOMMENDED PREPARATION / INFORMATION

You can find the free course textbook at: https://openstax.org/details/books/intermediate-algebra

COURSE LEARNING OUTCOMES / OBJECTIVES

The learning outcomes in this course meet the required learning outcomes in ABE Mathematics: Advanced Level (Business) as outlined in the BC ABE Articulation Handbook 2018/19 Edition. Upon successful completion of this course a student will be able to:

1. Demonstrate basic numeracy operations with real numbers to be able to perform arithmetic with and without a scientific calculator. It is expected that learners will be able to:

    a. add, subtract, multiply and divide rational numbers,

    b. evaluate powers with rational bases and integer exponents,

    c. demonstrate the order of operations with rational numbers,

    d. evaluate radicals and distinguish between exact answers and approximate answers,

e. write numbers in scientific notation, convert from scientific notation to standard notation, and multiply and divide numbers expressed in scientific notation, and

f. use a scientific calculator.

2. Demonstrate the ability to work with and apply first degree equations and inequalities in a single variable. It is expected that learners will be able to:

a. solve first degree equations, in one variable, including those involving parentheses,

b. solve formulas for a given variable,

c. solve first degree inequalities in one variable, and

d. solve practical problems using a first degree equation.

3. Demonstrate an understanding of single variable function equations and their planar graphs, and relate the visual and algebraic expressions. It is expected that learners will be able to:

a. plot points on a coordinate system,

b. use number pairs to name points on the coordinate system,

c. determine whether a given point is a solution to an equation in two variables, and

d. create an appropriate table of values and recognize the graph of linear and quadratic functions.

4. Develop fundamental skills in data analysis. It is expected that learners will be able to:

a. determine the mean, median, mode and range from a set of data,

b. interpret and/or construct frequency tables, broken line graphs, bar graphs, and stem-plots from a set of data,

c. design a statistical experiment, collect the data, analyze and communicate the results,

d. find quartiles and the percentile represented by a given data value,

e. calculate the standard deviation of a set of data using appropriate technology, and

f. use z-scores to analyze normally distributed data.

5. Use systems of two equations to solve linear problems in two variables. It is expected that learners will be able to:

a. solve systems of linear equations in two variables graphically and/or algebraically

b. graph linear inequalities in two variables

c. solve graphically, systems of linear inequalities, and

d. solve practical problems.

COURSE SCHEDULE for ACTIVITY / EVALUATION

The following schedule and course components are subject to change with reasonable advance notice, as deemed appropriate by the instructor.

ACTIVITY	Tentative Dates
Homework - 1	January 29
Midterm Exam - 1	January 30
Homework - 2	February 26
Midterm Exam - 2	February 27
Homework - 3	March 26

ACTIVITY	Tentative Dates
Midterm Exam – 3	March 27

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 noticed is required. Deadlines scan be reviewed on the CAL exams page. http://camosun.ca/services/accessible-learning/exams.html

EVALUATION OF LEARNING

DESCRIPTION	WEIGHTING
CheckPoint Quizzes	10 %
Assignments	20 %
Midterm Tests	30 %
Final Exam	40 %
TOTAL	100%

If you have a concern about a grade you have received for an evaluation, please email me as soon as possible [no later than 7 calendar days]. Refer to the Grade Review and Appeals policy for more information. http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.14.pdf

COURSE GUIDELINES & EXPECATIONS

Final Exam

The final exam will cover the entire course and will be 2 hours long; it will contain a no-calculator section. As stated in the current college calendar, "students are expected to write tests and final examinations at the scheduled time and place." Exceptions will only be considered due to **emergency** circumstances as outlined in the calendar. The calendar specifically states that "holidays or scheduled flights are not considered to be emergencies." The final exam schedule is generally posted within one week of the second Friday in February.

CheckPoint Quizzes

The CheckPoint quizzes are to be taken every day after the lecture, and assess your understanding of the taught material. They are due at 11:00 PM every day of the lecture.

Assignments

There will be three homework assignments which you will do on the dates mentioned above. Assignment solutions will be posted on D2L and are due most Wednesday nights at 11:00 PM. All homework will have two stages. There is a portion tested on D2L as a multiple choice quiz (25% of the homework grade), graded by the computer, followed by a portion that you write out by hand and scan in (75% of the homework grade).

Midterm Tests

There will be thee in-class (synchronous) term tests. No make-up tests will be given; if you have an emergency, please talk to me as soon as possible. Otherwise, you will receive a grade of 0 for any missed test.

Regardless of the reason, **there will be no make-up midterm tests**. If you miss a midterm test due to illness, accident, or family affliction, you should very quickly notify the instructor, and provide a written request to be excused as well as supporting documentation. In such cases, your performance on the rest of the term's work, not including the final exam, will be used to compute a numerical score for the missed midterm.

Tests will also have two stages. There is a portion tested on D2L as a multiple choice quiz (25% of the midterm grade), graded by the computer, followed by a portion that you write out by hand and scan in (75% of the midterm grade). Tests are open book, are timed, and are individual.

STUDENT RESPONSIBILITY

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

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	http://camosun.ca/advising
Accessible Learning	http://camosun.ca/accessible-learning
Counselling	http://camosun.ca/counselling
Career Services	http://camosun.ca/coop
Financial Aid and Awards	http://camosun.ca/financialaid
Help Centres (Math/English/Science)	http://camosun.ca/help-centres
Indigenous Student Support	http://camosun.ca/indigenous
International Student Support	http://camosun.ca/international/
Learning Skills	http://camosun.ca/learningskills
Library	http://camosun.ca/services/library/
Office of Student Support	http://camosun.ca/oss
Ombudsperson	http://camosun.ca/ombuds

Support Service	Website
Registration	http://camosun.ca/registration
Technology Support	http://camosun.ca/its
Writing Centre	http://camosun.ca/writing-centre

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

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 (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. To contact the Office of Student Support: 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.*