

COURSE SYLLABUS



COURSE TITLE: **Math 072 003**

TERM: **Winter 2024**

COURSE CREDITS: **4 credits**

DELIVERY METHOD(S): **Lecture**

WEBSITE(S): **D2L:** <http://online.camosun.ca>

MyMathLab: <http://pearsonmylabandmastering.com>

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](#).

For COVID-19 information please visit <https://legacy.camosun.ca/covid19/index.html>.

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: **Gemma Cuizon**

EMAIL: cuizon@camosun.bc.ca

OFFICE: **Ewing 342A**

HOURS: **Tuesday: 11:30 am – 12:20 pm**

Thursday: 11:30 am – 12:20 pm

CALENDAR DESCRIPTION

This course provides the algebra skills required for statistics, criminal justice and some business programs. Topics include linear equations and inequalities, rearranging formulas, linear equations in two variables, systems of linear equations, integer and rational exponents, polynomials and factoring.

PREREQUISITE(S): One of: C in Foundations of Math & Pre-calculus 10, C in MATH 053, C in MATH 057, C- in Pre-calculus 11. Must be completed prior to taking this course.

COURSE LEARNING OUTCOMES / OBJECTIVES

Upon completion of this course the student will be able to:

1. Demonstrate basic numeracy skills by performing mathematical operations on real numbers including absolute value and exponents, with and without scientific calculators. (Note: 40% of the course does not use calculators)
2. Read and write mathematics at an Adult Basic Education Advanced Level.
3. Solve linear equations and equations involving absolute value. Use formulas and solve formulas for a given variable. Solve linear and compound inequalities and express answers in both set and interval notation.

4. Determine whether or not relations are functions. Evaluate functions. Determine the functions (quadratic, reciprocal and absolute value) using a table of values.
5. Graph linear equations using a variety of strategies. Determine equations of lines given two points or the slope and a point. Model simple real-life problems that require linear equations (for example, finding the size of a fish growing at a fixed rate, determining the cost of a job involving fixed and variable costs).
6. Solve systems of linear equations in two variables by graphing, substitution, and elimination.
7. Determine whether expressions are polynomials. Classify polynomials by degree and type. Add, subtract and multiply polynomials. Factor polynomials completely using a variety of strategies.
8. Use the laws of exponents to simplify expressions containing rational exponents. Convert expressions between radical and exponential form.
9. Solve applied problems including those involving geometry, mixture and money (simple interest, investment, % discount, buying/selling).

A grade of C+ or better is needed for Math 073, 142, 143, or 109. A grade of B or better is needed for Math 139. After completion of Math 072 **and** 073, students will meet the outcomes as identified in the Adult Basic Education Articulation Handbook found at http://www2.gov.bc.ca/assets/gov/education/post-secondary-education/adult-education/2016-17_abe_guide.pdf.

REQUIRED MATERIALS & RECOMMENDED PREPARATION / INFORMATION

Textbook: Digital copy of Intermediate Algebra (13th Edition) by Bittinger, Beecher, Johnson. You can purchase the digital copy of the eText by getting a Student Access Code from the Camosun Bookstore or click on this link to connect to the bookstore https://www.camosuncollegebookstore.ca/buy_access_codes.asp? Click the box for Math 072/073/139 and then search, the **Intermediate Algebra eText with Integrated Review** title shows up.

Calculator Policy Only scientific calculators are allowed for the tests and final exam. Required calculator for all math courses at Camosun College is the **Sharp EL 531 XG or XT. Programmable or graphing calculators are not allowed.**

COURSE SCHEDULE AND TOPICS

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

	Monday	Tuesday	Wednesday	Thursday	Friday
11:00	-----				
12:00		Office Hours E342A	Office Hours CBA 156	Office Hours E342A	Office Hours CBA 156
13:00	Math 072 003 E348	Math 072 001 E348	Math 075 001 Portable A, 101	Math 072 001 E348	Math 075 001 Portable A, 101
14:00	-----				
15:00	-----				
16:00	-----				
17:00	-----	Office Hours		Office Hours	
18:00	-----	Math 072 073 DS02		Math 072 073 DS02	
19:00	-----				

Math 072 covers Just in Time Review through Chapter 4 in the textbook:

Unit 1: Just in Time Review Chapter – Section 1 – 20 **(No Calculator)**

Unit 2: Chapter 1 Solving Linear Equations and Inequalities – Section 1.1 – 1.5, 1.6 a – d

Unit 3: Chapter 2 Graphs, Functions and Applications – Section 2.1 – 2.6 **(No Calculator)**

Unit 4: Chapter 3 Systems of Equations – Section 3.1 – 3.3, 3.4a, 3.7ab

Unit 5: Chapter 4 Polynomials and Polynomial Functions – Section 4.1 – 4.8

Section	Topic	Suggested Time (Hours)	Suggested Date	Suggested Week
Unit 1: Just in Time Review	Review of Basic Algebra (no calculator)			
1	Set of Real Numbers	1	Jan 8	1
2 – 4	Order for Real Numbers; Graphing of Inequalities on a Number Line; Absolute Value	2	Jan 9	1
5 – 9	Operations with Real Numbers (Add, Subtract, Multiply and Divide)	2	Jan 11	1
10 – 11	Exponential Notation (Part 1); Order of Operations	1.5	Jan 15, Jan 16	2
12 – 15	Translate to an Algebraic Expression; Evaluate Algebraic Expressions; Equivalent Fraction Expressions; Commutative and Associative Laws	1.5	Jan 16	2
16 – 18	Distributive Laws; Collecting Like Terms; Removing Parenthesis and Collecting Like Terms	2	Jan 18	2
19 – 20	Exponential Notation (Part 2); Scientific Notation	2	Jan 22, Jan 23	3
	Review	1	Jan 23	3
	Homework 1		Jan 25	3
	Quiz 1 (JITR) – no calculator	2	January 30	4
Unit 2: Chapter 1	Solving Linear Equations and Inequalities			
1.1	Solving Equations	2	Jan 25	3
1.2	Formulas and Applications	1	Jan 29	4
1.3	Applications and Problem Solving	2	Feb 1	4
1.4	Sets, Inequalities, and Interval Notation	1	Feb 5	5
1.5	Intersections, Unions, and Compound Inequalities	2	Feb 6	5
1.6a-d	Absolute-Value Equations	1	Feb 8	5
	Review	1	Feb 8	5
	Homework 2 (Chapter 1)		Feb 12	6
	Quiz 2 (Chapter 1)	2	Feb 15	6
Unit 3: Chapter 2	Graphs, Functions, and Applications (no calculator)			
2.1	Graphs of Equations	2	Feb 12, 13	6
2.2	Functions and Graphs	1	Feb 13	6
2.3	Finding Domain and Range	2	Feb 26, 27	8
2.4	Linear Functions: Graphs and Slope	1	Feb 27	8
2.5	More on Graphing Linear Equations	1	Feb 29	8
2.6	Finding Equations of Lines; Applications	2	Feb 29, Mar 4	8, 9
	Review	1	Mar 5	9
	Homework 3 (Chapter 2)		Mar 5	9
	Quiz 3 (Chapter 2) – no calculator	2	Mar 12	10
Unit 4: Chapter 3	Systems of Equations			
3.1	Systems of Equations in Two Variables	0.5	Mar 5	9
3.2	Solving by Substitution	0.5	Mar 5	9
3.3	Solving by Elimination	0.5	Mar 7	9
3.4a	Solving Applied Problems	1.5	Mar 7	9
3.7ab	Systems of Inequalities in Two Variables	1	Mar 11	10

	Review	1	Mar 14	10
	Homework 4 (Chapter 3)		Mar 14	10
	Quiz 4 (Chapter 3)	2	Mar 19	11
Unit 5: Chapter 4	Polynomials and Polynomial Functions			
4.1	Introduction to Polynomials and Polynomial Functions	2	Mar 14 and 18	10, 11
4.2	Multiplication of Polynomials	1	Mar 21	11
4.3	Introduction to Factoring	1	Mar 21	11
4.4	Factoring Trinomials: $x^2 + bx + c$	1	Mar 25	12
4.5	Factoring Trinomials: $ax^2 + bx + c$	1.5	Mar 26	12
4.6	Special Factoring	2.5	Mar 28	12
4.7	Factoring: A General Strategy	2	Apr 2	13
4.8	Application of Polynomial Equations and Functions	2	Apr 4	13
	Review		Apr 8	14
	Homework 5 (Chapter 4)		Apr 5(Fri)	13
	Quiz 5 (Chapter 4)	2	Apr 9	14
	Review for Final Exam	3	Apr 11	14
	Final Exam (cumulative) – no calculator on Part 1; with calculator on Part 2	3	TBA	

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

DESCRIPTION	WEIGHTING
Homework	15
Tests	50
Final Exam	35
TOTAL	100%

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>

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	Minimum level of achievement for which credit is granted; a course with a "D" grade cannot be used as a prerequisite.	1
0-49	F	Minimum level has not been achieved.	0

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/

Support Service	Website
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
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.