COURSE SYLLABUS

COURSE TITLE: Math 072

CLASS SECTION: DS01

TERM: 2021S

COURSE CREDITS: 4

DELIVERY METHOD(S): Online, Self-Paced

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.

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: Crystal Lomas

EMAIL: LomasC@camosun.bc.ca

OFFICE: Collaborate (Ewing 270)

HOURS: By appointment, please email

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

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 and Pre-calculus 10, C- in Pre-calculus 11, C in MATH 053, C in MATH 057

CO-REQUISITE(S):   None.

EXCLUSION(S):   None.

COURSE LEARNING OUTCOMES / OBJECTIVES

Upon successful completion of the course, a student will be able to:

1. Demonstrate basic algebraic skills, and use a scientific calculator to evaluate complex expressions with emphasis on using special keys to perform a variety of functions. In particular:
   a. perform operations with real numbers including absolute value and exponential notation,
   b. simplify expressions using rules for order of operations and properties of exponents,
   c. translate common language into algebraic expressions,
   d. evaluate algebraic expressions by substitution,
   e. simplify algebraic expressions with nested parentheses, and
   f. use scientific notation.

2. Solve linear equations and inequalities in one variable. In particular:
   a. solve first degree/linear equations in one variable,
   b. solve simple formulas for a given variable,
   c. solve and graph linear inequalities in one variable,
   d. write set-builder and/or interval notation for the solution set or graph of an inequality,
   e. use linear equations, formulas and linear inequalities to solve applied problems,
   f. find the union or intersection of two sets,
   g. solve and graph compound inequalities (conjunctions and disjunctions), and
   h. simplify expressions containing absolute value and solve absolute value equations.

3. Employ graphing techniques for relations and functions. In particular:
   a. write linear relations in slope-intercept form,
   b. graph linear equations and non-linear equations using a table of values,
   c. graph linear equations using the y-intercept and slope and using x-and y-intercepts,
   d. graph horizontal and vertical lines,
   e. find the slope of a line given two points on the line,
   f. find the equation of a line given graphic data: the slope and y-intercept, the slope and one point, or two points on the line,
   g. determine whether a pair of lines is parallel, perpendicular or neither,
   h. find the equation of a line parallel or perpendicular to a given line and through a given point,
   i. use the definition of function and the vertical line test to distinguish between functions and non-functions,
   j. use and interpret function notation to evaluate functions for given x-values and find x-values for given function values,
   k. determine the domain and range of a function,
   l. use a table of values to graph linear functions and non-linear functions such as quadratic, cubic, square root, reciprocal, and absolute value functions, and
   m. graph linear inequalities in two variables.

4. Solve systems of linear equations in two variables. In particular:
   a. solve by graphing, substitution and elimination methods,
   b. determine if a system of equations will have no, one, or an infinite number of solutions, and
   c. use systems of equations to solve applied problems.

5. Develop facility with polynomial expressions and equations. In particular:
   a. determine the degree of a polynomial,
   b. distinguish between monomials, binomials, trinomials, and other polynomials,
   c. add, subtract, multiply polynomials,
   d. divide polynomials by monomials,
   e. factor polynomials using an appropriate strategy or a combination of techniques: common factors, difference of squares, difference and sum of cubes, perfect square trinomials, trial/error, or grouping,
   f. solve polynomial equations using the principle of zero products, and
   g. solve applied problems using polynomial equations/functions

REQUIRED MATERIALS & RECOMMENDED PREPARATION / INFORMATION

Textbook: Intermediate Algebra 13th edition by M.L. Bittinger, with digital access code for MyLab Math (available through the college [bookstore](#)). If you do not want a print text, then you can purchase the standalone digital code since it grants access to the digital textbook and student solutions manual. Our CourseID is **lomas29828**.

Tech: Computer/tablet, headphones or speakers, internet access. Microphone recommended.

Calculator: Sharp EL-531 scientific calculator or use the online calculator at https://www.calculator.net/scientific-calculator.html

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

Instructor support via Collaborate (access through D2L): Tues & Thurs 5:30 – 7:50 pm

Tests can be written Tuesday or Thursday evenings 4:00 pm – 8:00 pm and must be booked at least two business days in advance. E-mail me during your test if you have a question and I will respond promptly.

The following schedule is suggested to complete Math 072 in one term. You may complete it faster or if you need more time you can re-register for another term. Test marks may be carried forward for up to one year. You can take up to 3 terms to complete a course. If you wish to complete both Math 072 and Math 073 in one semester, contact your instructor for the suggested schedule.

WEEK or DATE RANGE	ACTIVITY or TOPIC	OTHER NOTES
May 3-7	How to Enter Answers, Just-in-time-Review (JITR) 1-20, JITR Practice Test	**No calculator allowed**. Book JITR Test at least two business days in advance.
May 10-14	Sections 1.1, 1.2	
May 17-21	Sections 1.3, 1.4, 1.5	
May 24-28	Sections 1.5, 1.6a-d, Chapter 1 Practice Test	Book Chapter 1 Test at least two business days in advance.
May 31-June 4	Sections 2.1, 2.2, 2.3	
June 7-11	Sections 2.3, 2.4, 2.5	
June 14-18	Sections 2.5, 2.6, Chapter 2 Practice Test	Book Chapter 2 Test at least two business days in advance.
June 21-25	Sections 3.1, 3.2, 3.3	
June 28-July 1	Sections 3.4a, 3.7ab, Chapter 3 Practice Test	Book Chapter 3 Test at least two business days in advance.
July 5-9	Sections 4.1, 4.2	
July 12-16	Sections 4.3, 4.4	
July 19-23	Sections 4.5, 4.6	
July 26-30	Sections 4.7, 4.8, Chapter 4 Practice Test	Book Chapter 4 Test at least two business days in advance.
Aug 3-6	Exam Review	

WEEK or DATE RANGE	ACTIVITY or TOPIC	OTHER NOTES
Aug 8-12	Final Exam	Book Final Exam at least two business days in advance.
Aug 12	**Last day** to write tests/exam	

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
Homework Assignments		20%
Practice Tests		10%
Chapter Tests		40%
Final Exam		30%
	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 policy for more information. http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.14.pdf

COURSE GUIDELINES & EXPECATIONS
All course items are completed through MyLab Math (MLM).

Homework Assignments
There is an assignment for each chapter. You get three attempts on each question.

Practice Tests
Before each test, you will need to complete the practice test. You get 2 attempts.

Chapter Tests
After completing all the homework and the practice test, you can book your chapter test by sending me an email noting the day (Tuesday or Thursday) and time (between 4:00-8:00pm) when you can write it. If I feel that your work is satisfactory, the test will be loaded onto MLM within two business days.

Show all your work on paper, clearly numbering each question, then enter the answers in MLM. Submit your work within half an hour of writing the test by scanning it as a single pdf file, then using the Assignment tool in D2L. You will not receive credit for the test unless satisfactory work is shown. E-mail me during your test if you have a question and I will respond promptly.

There are five (equally-weighted) chapter tests. Re-tests are only provided if you score less than 65%. Only one re-test is allowed. You will need approximately 2 hours to complete each chapter test. No calculator is allowed for the Just-in-Time-Review (JITR) test.

No formulas, textbooks, or other resources are allowed for any chapter test.

Final Exam

There is a cumulative final exam. It covers all of the material from the Just-in-Time-Review to the end of Chapter 4. When you have completed all the tests and the exam review, and feel that you're ready, please let me know what day (Tuesday or Thursday) and time (between 4:00-8:00pm) you want to write it. There are no rewrites for the final exam. You will need approximately 3 hours to write the final exam. No calculator is allowed for Part One of the final exam.

No formulas, textbooks, or other resources are allowed for the final exam.

Class Time

During class times (Tues & Thurs, 5:30-7:50), I will be available for questions via Collaborate (you can access Collaborate through D2L). I encourage you to attend classes to keep on track and so you can easily ask questions when you get stuck.

Please do not join Crystal's Office if there is already a student visiting; raise your hand and I will come get you.

SCHOOL OR DEPARTMENTAL INFORMATION

Free tutoring: You can email mathlab@camosun.ca or book a video chat at
https://outlook.office365.com/owa/calendar/MathLab@camosun.ca/bookings/

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

Support Service	Website
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
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.