

COURSE SYLLABUS



COURSE TITLE: MATH-107: Applied Precalculus

CLASS SECTION: 002

TERM: 2022F

COURSE CREDITS: 4

DELIVERY METHOD(S): LEC

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 of the first class, you will be removed from the course and the space offered to the next waitlisted student.

INSTRUCTOR DETAILS

NAME: Laura Shepherd

EMAIL: shepherd@camosun.bc.ca

OFFICE: E258

HOURS: M-F 9:30am-10:20am & M-Th 11:30am-12:20pm

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

Students in life science, environmental studies, business, and social science will be prepared for applied calculus in their program of study. Students will: review algebra and study polynomial, rational, exponential, logarithmic, trigonometric and inverse trigonometric functions, sequences and series.

PREREQUISITE(S):

One of:

C+ in Pre-calculus 11; C- in Pre-calculus 12; C+ in MATH 073; C+ in MATH 077; C in MATH 097; C+ in MATH 137; C in MATH 139

NOTES: It is recommended that students who have been away from algebra for more than two years should first enroll in MATH 073, MATH 077, MATH 137 or MATH 139.

CO-REQUISITE(S):

Not Applicable

EXCLUSION(S):

Only one of MATH 107 or MATH 115 may be used towards a Camosun College credential.

COURSE LEARNING OUTCOMES / OBJECTIVES

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

1. Demonstrate proficiency in the fundamental concepts of Intermediate Algebra necessary to analyze and interpret single variable functions. This includes but is not limited to: factorization of polynomials and expressions with rational exponents, simplification of rational expressions, complex fractions and radicals, solving subsequent polynomial, radical, and rational equations, and single variable linear and quadratic inequalities.
2. Demonstrate the ability to understand and interpret visual 2-D representation of single variable relationships. This includes working with the basic concepts of graphing in the co-ordinate plane with an emphasis on linear equations, circles, and ellipses.
3. Work with analytic representations of single variable relationships and connect basic models to their visual representations. This includes building a foundation of understanding of terminology and notation for functions, including basic definitions and examples.
4. Work with more advanced functions to enable more complex modelling and analysis in follow-on courses. Examples include: quadratic, polynomial, rational, exponential, trigonometric and inverse trigonometric functions.
5. Solve word problems involving arithmetic and geometric sequences and series.

REQUIRED MATERIALS & RECOMMENDED PREPARATION / INFORMATION

Textbook: Algebra & Trigonometry (11th. Edition) by Sullivan

SHARP EL-531 Calculator

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

The following schedule and course components are subject to change with reasonable advance notice, as deemed appropriate by the instructor. See pacing schedule for more detailed information.

WEEK or DATE RANGE	ACTIVITY or TOPIC	OTHER NOTES
1	R.5-1.4	Q1
2	1.5-11.3	Q2
3	3.1-3.6	Q3
4	4.1-4.5	Q4
5	5.1-5.3	Q5 & Test 1
6	5.4-6.1	Q6

WEEK or DATE RANGE	ACTIVITY or TOPIC	OTHER NOTES
7	6.2-6.6	Q7
8	6.7-7.2	Q8 & Test 2
9	7.3-7.7	Q9
10	7.8-8.1	Q10 & Test 3
11	8.1-8.3	Q11
12	8.4-8.6	Q12
13	8.6-13.1	Q13 & Test 4
14	13.2-13.3	Q14
Dec. 12-20	Final 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 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
In Class Questions: Once a week, during the first 5 minutes of class, there will be a question based on the previous lectures content.	5%
Term Tests: There will be 4 terms tests. There are no make-up tests.	55%
Final Exam: Students must be available to write the exam during the scheduled date, time and place.	40%
TOTAL	100%

Minimum consequences for academic dishonesty in this course are as follows:

Weekly Questions: The student will receive a zero for all of the weekly questions.

Term Test: The student will receive a zero for the term test.

Final Exam: The student will receive a failing grade for the course and a letter to the dean detailing your actions.

COURSE GUIDELINES & EXPECTATIONS

MATH 107 is a difficult course. It is important that you have a solid back-ground in algebra. Success in the course will require a lot of your time, approximately 4 hours of studying each and every day. Besides learning the course material through the lessons, its important that you work diligently through numerous homework problems so as to reinforce your understanding, not to mention prepare yourself for the in class questions, tests and the final exam. Be sure to keep up with the course material and do not let yourself fall behind.

SCHOOL OR DEPARTMENTAL INFORMATION

The Camosun Math Help Center is located in E224. This is a drop in centre where you can get help with your homework. The hours will be posted on door.

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/>.

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
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.

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.