



CAMOSUN COLLEGE
School of Arts & Science
Department of Mathematics & Statistics

MATH-107-D02
Applied Precalculus
Winter 2021

COURSE OUTLINE

The course description is online @ <http://camosun.ca/learn/calendar/current/web/math.html>

Ω Please note: This outline will not be kept indefinitely. It is recommended students keep this outline for their records, especially to assist in transfer credit to post-secondary institutions.

1. Instructor Information

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|------------------|--|
| (a) Instructor | Chedo Barone |
| (b) Office hours | Tues, Thur, Fri 11:30 – 12:20, Wed 2:30 – 3:20, or by appointment. Held on Blackboard Collaborate; link is posted on D2L |
| (c) Location | Online |
| (d) Phone | Alternative: _____ |
| (e) E-mail | baronec@camosun.ca |
| (f) Website | D2L (login at online.camosun.ca) |

2. Intended Learning Outcomes

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.

3. Required Materials

(a) Text: Lecture notes (posted on D2L). The chapters and sections follow those of Michael Sullivan's Algebra and Trigonometry. If you can find an old copy of the Sullivan textbook, you can use it, but it is not required.

(b) Sharp EL-531 calculator (or Sharp EL-510R). No other calculator may be used during tests/exams.

4. Course Content and Schedule

Overall Course Structure: At the start of each week, approximately 2.5 hours of videos will be posted on D2L. During the first class of the week (**Tutorial**), we will work together on questions relating to the previous week's videos. During the second class of the week (**Check-In**), I will present a recap of the current week's video lectures.

Tutorials will typically run for 1.5 hours, and the Check-Ins will typically run for 1 hour.

Quizzes: After the Check-In we will typically have a short quiz (20 minutes writing time). See the Math 107 Schedule, posted on D2L for the dates of these quizzes. The quizzes will typically consist of 3 to 4 questions from the previous week's course content.

Tests: There will be three term tests, each with a writing time of one hour. The coverage for each test will be announced during the Check-In on the previous week.

Final Exam: There will be a comprehensive three-hour final exam scheduled during the Final Exam Period (April 19 – 27)

5. Basis of Student Assessment (Weighting)

Assignments: Intro assignment (worth 1%)

Quizzes: There are 7 quizzes in total, and I will drop the lowest quiz mark for each student. The remaining quizzes will each be worth 4%, for a total of 24%

Tests: 3 term tests, each worth 15%, for a total of 45%

Final Exam: 30%

Please see the Math 107 Schedule, posted on D2L, for the dates of quizzes and tests. The final exam date will fall during the Final Exam Period (April 19 – 27)

6. Grading System

Standard Grading System (GPA)

Competency Based Grading System

7. Recommended Materials to Assist Students to Succeed Throughout the Course

Math Lab (Help Centre)

Math lab is staffed with instructional assistants available for **free** help. Please email themathlabs@gmail.com to arrange an appointment. Lab hours can be viewed at <http://camosun.ca/services/help-centres/>

8. College Supports, Services and Policies



Immediate, Urgent, or Emergency Support

If you or someone you know requires immediate, urgent, or emergency support (e.g. illness, injury, thoughts of suicide, sexual assault, etc.), **SEEK HELP**. Resource contacts @ <http://camosun.ca/about/mental-health/emergency.html> or <http://camosun.ca/services/sexual-violence/get-support.html#urgent>

College Services

Camosun offers a variety of health and academic support services, including counselling, dental, disability resource centre, help centre, learning skills, sexual violence support & education, library, and writing centre. For more information on each of these services, visit the **STUDENT SERVICES** link on the College website at <http://camosun.ca/>

College Policies

Camosun strives to provide clear, transparent, and easily accessible policies that exemplify the college's commitment to life-changing learning. It is the student's responsibility to become familiar with the content of College policies. Policies are available on the College website at <http://camosun.ca/about/policies/>. Education and academic policies include, but are not limited to, Academic Progress, Admission, Course Withdrawals, Standards for Awarding Credentials, Involuntary Health and Safety Leave of Absence, Prior Learning Assessment, Medical/Compassionate Withdrawal, Sexual Violence and Misconduct, Student Ancillary Fees, Student Appeals, Student Conduct, and Student Penalties and Fines.

A. GRADING SYSTEMS <http://camosun.ca/about/policies/index.html>

The following two grading systems are used at Camosun College:

1. 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 | | 1 |
| 0-49 | F | Minimum level has not been achieved. | 0 |

2. Competency Based Grading System (Non GPA)

This grading system is based on satisfactory acquisition of defined skills or successful completion of the course learning outcomes

| Grade | Description |
|-------|---|
| COM | The student has met the goals, criteria, or competencies established for this course, practicum or field placement. |
| DST | The student has met and exceeded, above and beyond expectation, the goals, criteria, or competencies established for this course, practicum or field placement. |
| NC | The student has not met the goals, criteria or competencies established for this course, practicum or field placement. |

B. 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/index.html> for information on conversion to final grades, and for additional information on student record and transcript notations.

| Temporary Grade | Description |
|-----------------|---|
| I | <i>Incomplete:</i> A temporary grade assigned when the requirements of a course have not yet been completed due to hardship or extenuating circumstances, such as illness or death in the family. |
| IP | <i>In progress:</i> A temporary grade assigned for courses that are designed to have an anticipated enrollment that extends beyond one term. No more than two IP grades will be assigned for the same course. |
| CW | <i>Compulsory Withdrawal:</i> A temporary grade assigned by a Dean when an instructor, after documenting the prescriptive strategies applied and consulting with peers, deems that a student is unsafe to self or others and must be removed from the lab, practicum, worksite, or field placement. |