



Mathematics 139 DX02
Algebra and Triangle Trigonometry
Fall 2020

Instructor: Gemma Cuizon
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Schedule:

Time	Monday	Tuesday	Wednesday	Thursday	Friday
8:30 am - 9:20 am		Math 139 DX02	Math 139 DX02	Math 139 DX01	
9:30 am-10:20 am					Math 139 DX01
10:30 am - 11:30 am		Office hours	Office hours	Office Hours	
11:30 am - 12:20 pm		Math 075		Math 075	Office Hours
12:30 pm - 1:20 pm			Math 139 DX01		
1:30 pm - 2:20 pm				Office Hours	
2:30 pm - 3:20 pm				Math 139 DX02	
3:30 pm - 4:20 pm					

Important Dates:

September 8	First day of Math 139 class
September 21	Fee deadline
October 12	Thanksgiving Day – College closed
November 11	Remembrance Day
November 12	Last day to withdraw from the course or change to audit
December 12	Last day of instruction
Dec 14 – 22	Final Exam period (No exam on Sunday, Dec. 20)

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

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

Mathlabs Bookings and Help Centres:

In order to get help with Math or Statistics from an Instructional Assistant, you can send an email to an Instructional Assistant with a picture of the question that you need help with or you can type in the question into an email. The email addresses of the Instructional Assistants are available at <http://camosun.ca/services/help-centres/math-help.html>

You can also book a 30 minute online appointment with an Instructional Assistant for Math or Statistics help using Microsoft Teams at [Math Labs & Help Centres Booking](#).

To book an appointment, you will need to:

- 1) Select whether you are taking Math 072 and up, Math 021-115, or Trades Programs Math.
- 2) Select the date you would like to book an appointment on.
- 3) Optionally select the staff member you would like to book an appointment with.
- 4) Select the time that you would like to book an appointment at.
- 5) Type in your name and email address and optionally type in your phone number, address, and notes for any special requests that you have.
- 6) Type in your Camosun ID and the Course Name and Level that you would like help with.
- 7) Click on the Book button at the bottom of the page to schedule your appointment.

Tentative Term Test and Homework Dates

Homework 1	September 15, 2020
Term Test 1	September 17, 2020
Homework 2	September 29, 2020
Term Test 2	October 1, 2020
Homework 3	October 13, 2020
Term Test 3	October 15, 2020
Homework 4	October 27, 2020
Term Test 4	October 29, 2020

Homework 5	November 10, 2020
Term Test 5	November 12, 2020
Homework 6	November 24, 2020
Term Test 6	November 26, 2020

Grade Calculation: The final grade will be calculated according to the following breakdown:

Homework	15%
Best 5 of 6 term tests	50%
Comprehensive Final Exam:	35%

Assignments

There will be six homework assignments which you will do and submit online in D2L. You will be given a week to work on an assignment. You will submit assignments on the dates mentioned above during on or before 8:00 pm. **I will be selecting questions from the text and post it on a News Item on D2L. Please check News Item on D2L regularly.** Assignment solutions will be posted on D2L the next day from the respective dates mentioned above. Each assignment is worth 2.5% of the final mark.

Term Tests

There will be six term test which will be posted on the **Assignment tool** in D2L during our class schedule on the dates mentioned above. I will be getting the best 5 tests out of 6, and each test will be worth 10% of the final mark. Each term test will be timed. You will be given at most two hours to work on the term test. 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 term tests. If you miss a test due to an illness, accident, or family affliction, you should very quickly notify me and we can discuss other options to cover the missed test. 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 term test.

Grading System

(If any changes are made to this part, then the Approved Course description must also be changed and sent through the approval process.)

(Mark with "X" in box below to show appropriate approved grading system – see last page of this template.)

Standard Grading System (GPA)

Competency Based Grading System

College Supports, Services and Policies

Immediate, Urgent or Emergency Support

If you or someone you know requires immediate, urgent or emergency support (i.e. 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 and 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 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://www.camosun.bc.ca/policies/policies.php>

The following two grading systems are used at Camosun College:

1. Standard Grading System (GPA)

Percent Range	0-49	50-59	60-64	65-69	70-72	73-76	77-79	80-84	85-89	90-100
Letter Grade	F	D	C	C+	B-	B	B+	A-	A	A+
Grade Point Equivalency	0	1	2	3	4	5	6	7	8	9

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.
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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://www.camosun.bc.ca/policies/E-1.5.pdf> 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.

5. Course Content

Chapter R - Review of Basic Algebra

- Section R.1: The Set of Real Numbers
- Section R.2: Operations with Real Numbers
- Section R.3: Exponential Notation and Order of Operations
- Section R.4: Introduction to Algebraic Expressions
- Section R.5: Equivalent Algebraic Expressions
- Section R.6: Simplifying Algebraic Expressions
- Section R.7: Properties of Exponents and Scientific Notation

Chapter 1 - Solving Linear Equations and Inequalities

- Section 1.1: Solving Equations
- Section 1.2: Formulas and Applications
- Section 1.3: Applications and Problem Solving
- Section 1.4: Sets, Inequalities, and Interval Notation
- Section 1.5: Intersections, Unions, and Compound Inequalities (omit compound inequalities)

Chapter 2 - Graphs, Functions, and Equations

- Section 2.1: Graphs of Equations
- Section 2.2: Functions and Graphs
- Section 2.3: Finding Domain and Range
- Section 2.4: Linear Functions: Graphs and Slope

Section 2.5: More on Graphing Linear Equations
Section 2.6: Finding Equations of Lines; Applications

Chapter 3 - Systems of Equations

Section 3.1: Systems of Equations in Two Variables
Section 3.2: Solving by Substitution
Section 3.3: Solving by Elimination
Section 3.4: Solving Applied Problems: Two Equations

Chapter 4 - Polynomials and Polynomial Functions

Section 4.1: Introduction to Polynomials and Polynomial Functions
Section 4.2: Multiplication of Polynomials
Section 4.3: Introduction to Factoring
Section 4.4: Factoring Trinomials: x^2+bx+c
Section 4.5: Factoring Trinomials: x^2+bx+c
Section 4.6: Special Factoring
Section 4.7: Factoring: A General Strategy
Section 4.8: Applications of Polynomial Equations and Functions

Chapter 5 - Rational Expressions, Equations, and Functions

Section 5.1: Rational Expressions and Functions: Multiplying, Dividing, and Simplifying
Section 5.2: LCMs, LCDs, Addition, and Subtraction
Section 5.3: Division of Polynomials
Section 5.4: Complex Rational Expressions
Section 5.5: Solving Rational Equations
Section 5.6: Applications and Proportions
Section 5.7: Formulas and Applications
Section 5.8: Variation and Applications

Chapter 6 - Radical Expressions, Equations, and Functions

Section 6.1: Radical Expressions and Functions
Section 6.2: Rational Numbers as Exponents
Section 6.3: Simplifying Radical Expressions
Section 6.4: Addition, Subtraction, and More Multiplication
Section 6.5: More on Division of Radical Expressions
Section 6.6: Solving Radical Equations
Section 6.7: Applications Involving Powers and Roots
Section 6.8: The Complex Numbers

Chapter 7 - Quadratic Equations and Functions

Section 7.1: The Basics of Solving Quadratic Equations
Section 7.2: The Quadratic Formula
Section 7.3: Applications Involving Quadratic Equations
Section 7.4: More on Quadratic Equations
Section 7.5: Graphing $f(x) = a(x-h)^2+k$
Section 7.6: Graphing $f(x) = ax^2 + bx + c$

Geometry Supplement (In class notes and custom suggested problems)

Section G1: Lines and Angles

Section G2: Triangles

Section G3: Similar Triangles

Trigonometry Supplement (Sections 6.1, 6.2, 6.3, 8.1, 8.2 of J.A. Beecher, J.A. Penna, and M.L. Bittinger, Algebra and Trigonometry, 4th edition, Pearson Addison-Wesley, 2012.)

Section T1: Trigonometric Functions of Acute Angles

Section T2: Applications of Right Triangles

Section T3: Trigonometric Functions of Any Angle

Section T4: The Law of Sines

Section T5: The Law of Cosines