COURSE SYLLABUS

COURSE TITLE: Math 057 Math for Electrical Trades CLASS SECTION: DS02 TERM: Fall 2022 COURSE CREDITS: 0 DELIVERY METHOD(S): Online



Camosun College campuses are located on the traditional territories of the Lək^wəŋən and WSÁNEĆ 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, you will be removed from the course and the space offered to the next waitlisted student.

INSTRUCTOR DETAILS

NAME: Zahra Khimji

EMAIL: khimjiz@camosun.ca

CLASS HOURS: Monday & Wednesday, 8:00 - 11:20 AM

VIRTUAL CLASSROOM: https://whereby.com/zkclass

OFFICE Hours: By appointment

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 covers the algebra from <u>MATH 053</u> plus modules on trigonometry and vectors, which provides the skills required for further study in Electical ELT, advanced-level mathematics, and any course or program that requires Math 10. Topics: real numbers, algebraic expressions, equations, inequalities, graphing, polynomials, trigonometry, and vectors.

Prerequisite

• C in <u>MATH 052</u>

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

1. use mathematics at an ABE Intermediate level with competence

2. demonstrate knowledge and skills in using the language, principles, and operations of introductory algebra and trigonometry

3. apply a variety of strategies in solving math-related problems

4. apply knowledge and skills in introductory algebra and trigonometry to solve problems

5. use knowledge of introductory algebra and trigonometry as a basis for further study in the

Electrical ELT program, Advanced-level mathematics, and other courses and programs

REQUIRED MATERIALS & RECOMMENDED PREPARATION / INFORMATION

- (a) textbook: *Developmental Mathematics*, Custom Edition for Camosun College, Marvin Bittinger/Judith Beecher (Content taken from the 9th Edition of *Developmental Mathematics* by the same authors)
- (b) Unit R Arithmetic Review booklet
- (c) module: Trigonometry (ABE Intermediate Mathematics module 14), British Columbia
- (d) module: Vectors (Camosun College)
- (d) scientific calculator (Sharp EL-531X or EL-531W for next level MATH 072 or 135)

Supplementary Materials

- (e) Student's Solutions Manual, Judith Penna
 - (for sale in the bookstore; available for reference in the classroom)
- (f) *Instructor's Solutions Manual*, Judith Penna (for reference in the classroom)
- (g) additional math 057 materials can be found here: <u>https://sites.camosun.ca/acf-math/math-</u>057/

(h) website www.mymathlab.com (online text, tutorials, videos, and testing)

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

Self-paced Instructions

- (a) before starting unit 1, students must pass a competency test to demonstrate that they can add, subtract, multiply, and divide whole numbers, fractions, and decimals <u>without the use of a calculator</u> (calculators are not allowed for parts of MATH 072 and 172) use the Arithmetic Review booklet to review these operations before writing the competency test
- (b) for each section of the 057 text listed in the table below, read the explanations, study the Examples, do the Margin Exercises, and then work through and check all or at least some of the more difficult odd-numbered problems in the Exercise Set
- (c) note that unit 4 includes text chapter 10, 11.1, & 11.2, and a supplement on exponents
- (d) to prepare for the final test for each unit, do the Summary and Review Exercises and write the Chapter Test at the end of the chapter, and correct all of your errors
- (e) review your final test results with the instructor, and proceed to the next unit if you score 75% or better, or rewrite the final test if you score less than 75% (all test scores count)

MATH 057 course content

R.1 Place value R.2 Comparing numbers R.3 Rounding numbers R.4 Adding and subtracting whole numbers and decimals R.5 Multiplying whole numbers and decimals R.6 Dividing whole numbers and decimals R.7 Order of operations R.8 Operations with fractions R.9 Equivalent fractions R.10 Adding and subtracting fractions R.11 Multiplying fractions R.12 Dividing fractions R.13 Converting fractions and decimals R.14 Estimation Practice Test Unit 1 – neal Numbers and Algebraic Expressions (for 4-month completion: 20 days) 7.1 Introduction to algebra 7.2 The real numbers 7.4 Subtraction of real numbers 7.5 Multiplication of real numbers 7.6 Division of real numbers 7.7 Properties of real numbers 7.8 Simplifying expressions; order of operations 5 Summary and review Chapter test Unit 1 final test 0 Unit 2 – Solving Equations and	
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8.7 Solving inequalities	
Summary and review	
Chapter test	
Unit 2 final test	
Unit 3 – Graphs of Linear Equations (22 days)	
9.1 Graphs and applications of linear equations	
9.2 More with graphing and intercepts	
9.3 Slope and applications	
Summary and review	

	Chapter test			
	Unit 3 final test			
	Unit 4 – Polynomials: Operations and Factoring (28 days)			
10.1 *	Integers as exponents			
10.2 *	Exponents and scientific notation			
	*after 10.2, complete supplementary exercises on exponents (#1-25)			
10.3	Introduction to polynomials			
10.4	Addition and subtraction of polynomials			
10.5	Multiplication of polynomials			
10.6	Special products			
10.7	Operations with polynomials in several variables			
10.8a	Division of polynomials by a monomial			
11.1ab	Introduction to common factoring			
11.2	Factoring trinomials of the type $x^2 + bx + c$			
11.5cd				
	Summary and review			
	Chapter test			
	Unit 4 final test			
	MATH 053 review			
	MATH 053 final exam day 105			
	Unit 5 – Trigonometry (supplementary module) (25 days)			
5.1	The right triangle			
5.2				
5.3	Angles and sidesThe Pythagorean theorem (more in 7e text p 1059, 8e text p 1087)			
5.4	The tangent ratio			
5.5	Using the tangent ratio			
5.6	The sine and cosine ratios			
5.7				
J./	Solving triangles Practice test			
	Unit 5 final test			
	Unit 6 – Vectors (supplementary module)			
p 10	Problem Sets			
	Vectors Final Test day 130			

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 scan be reviewed on the <u>CAL exams page</u>. <u>http://camosun.ca/services/accessible-learning/exams.html</u>

EVALUATION OF LEARNING

- (a) **Tests** 75% of the course grade is based on the average of **all** unit final test scores for units 1–6 (including both passing and failing test scores)
- (b) **Exams** 25% of the course grade is based on the average of **all** final exam scores (including both passing and failing exam scores)

Note:Students with a record of low attendance OR lack of progress may be restricted from re-registering in Academic and Career Foundations Department courses.

	WEIGHTING
	75%
	25%
TOTAL	100%
on, please come and see for more information.	on, please come and see

http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.14.pdf

COURSE GUIDELINES & EXPECATIONS

The course consists of 6 hours of class time and 4 hours of lab time per week. Lab time is generally spent in the Help Centre where instructional resources are available. Course completion time will vary for each student, depending on a number of factors, including your current level of math skills, motivation, learning rate, and how much time you have to study math, either at the college or at home. Students generally need to spend 5–15 hours of study time per week to complete each math course within a reasonable amount of time.

SCHOOL OR DEPARTMENTAL INFORMATION

Grading System – Standard Grading System <u>http://camosun.ca/about/policies/education-academic/e-</u> <u>1-programming-and-instruction/e-1.5.pdf</u>

A+	90-100%	B+	77-79% C+	65–69% D	50-59%
А	85-89%	В	73–76% C	60–64% F	40-49%
A–	80-84%	B—	70–72% IP	in progress	

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/education-academic/e-1-programming-and-instruction/e-1.5.pdf

for information on conversion to final grades, and for additional information on student record and transcript notations.

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 <u>http://camosun.ca/students/</u>.

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/
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 <u>Centre for Accessible</u> <u>Learning</u> (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 <u>http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.13.pdf</u> for policy regarding academic expectations and details for addressing and resolving matters of academic misconduct.

Academic Progress

Please visit <u>http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.1.pdf</u> 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 <u>http://camosun.ca/about/policies/education-academic/e-2-student-services-and-support/e-2.2.pdf</u> 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 <u>http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.5.pdf</u> for further details about grading.

Grade Review and Appeals

Please visit <u>http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.14.pdf</u> 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"

(<u>http://camosun.ca/learn/calendar/current/procedures.html</u>) and the Grading Policy at <u>http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.5.pdf</u>.

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: <u>oss@camosun.ca</u> 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.