

COURSE SYLLABUS



COURSE TITLE:	Math 052 Intermediate Mathematics 1
CLASS SECTION:	DS19
TERM:	2022W
COURSE CREDITS:	0
DELIVERY METHOD(S):	Online/Asynchronous

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](#).

For COVID-19 information please visit <https://legacy.camosun.ca/covid19/index.html>.

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:	Puja Gupta
EMAIL:	guptap@camosun.ca
OFFICE:	Ewing 220
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

In this course students will learn practical computational and problem-solving skills required for daily life and for further study in intermediate-level algebra and math for trades. Topics: proportion, percent, graphs, statistics, measurement, geometry, and trigonometry.

PREREQUISITE(S): One of: COM in MATH 026 COM in MATH 037 COM in MATH 038 C in MATH 039 - Must be completed prior to taking this course.

CO-REQUISITE(S):

EXCLUSION(S):

COURSE LEARNING OUTCOMES / OBJECTIVES

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

- use mathematics at an ABE Intermediate level with competence
- demonstrate knowledge and skills in using the language, principles, and operations of consumer math (arithmetic, statistics, measurement), geometry, and trigonometry
- apply a variety of strategies in solving math-related problems
- apply knowledge and skills in consumer math, geometry, and trigonometry to solve problems
- use knowledge of consumer math, geometry, and trigonometry as a basis for further study in Intermediate-level algebra and math for trades

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) modules:
 1. Arithmetic Review (ABE Intermediate Mathematics module 1), British Columbia
 2. Trigonometry (ABE Intermediate Mathematics module 14), British Columbia
- (c) Scientific calculator: The Sharp EL 531W model (or similar) will be the only calculator allowed for this course.
- (d) Reliable access to the internet
- (e) Registration with MyMathLab:

<http://www.pearsonmylabandmastering.com/northamerica/mathxl/students/get-registered/index.html> . Course ID will be available at start of term.

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.

*Since this is a self-paced math class, this schedule is just a suggestion and the actual time taken to complete each unit may vary.

WEEK or DATE RANGE	ACTIVITY or TOPIC	OTHER NOTES
	Unit R Arithmetic Review	
Week 1-3	Pre-test	
	Place value	R.1
	Comparing numbers	R.2
	Rounding numbers	R.3
	Adding and subtracting whole numbers and decimals	R.4
	Multiplying whole numbers and decimals	R.5
	Powers – repeated multiplication	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	R.15
	Post-test	
	Unit R test	
	Unit 1 – Percent Notation (Chapter 4)	
Week 4-7	Pre-test	
	Ratio and proportion	4.1
	Percent notation	4.2
	Percent and fraction notation	4.3
	Solving percent problems using percent equations	4.4

WEEK or DATE RANGE	ACTIVITY or TOPIC	OTHER NOTES
	Solving percent problems using proportions	4.5
	Applications of percent	4.6
	Sales tax, commission and discount	4.7
	Simple interest and compound interest; credit cards	4.8
	Post-Test	
	Unit 1 Final Test	
	Unit 2 – Data, Graphs and Statistics (Chapter 5)	
Week 8	Pre-test	
	Averages, medians, and modes	5.1
	Tables and pictographs	5.2
	Bar graphs and line graphs	5.3
	Circle graphs	5.4
	Post-Test	
	Unit 2 Final Test	
	Unit 3 – Measurement (Appendices)	
Week 9	Pre-test	
	Linear measures: American units and metric units	A
	Weight and mass; medical applications	B
	Capacity; medical applications	C
	Time and temperature	D
	Post-Test	
	Unit 3 Final Test	
	Unit 4 – Geometry (Chapter 6)	
Week 10-12	Pre-test	
	Perimeter	6.2
	Area	6.3
	Circles	6.4
	Volume and surface area	6.5
	Similar triangles	6.8
	Post-Test	
	Unit 4	
Week 13-14	Unit 5 – Trigonometry (Booklet)	
	No pre-test	
	The right triangle	5.1
	Angles and sides	5.2
	The Pythagorean theorem	5.3
	The tangent ratio	5.4
	Using the tangent ratio	5.5
	The sine and cosine ratios	5.6
	Solving triangles	5.7
Week 15	Post-Test	
	Unit 5 Final Test	
	MATH 052 Final Pre-test	
	MATH 052 Final Post-test	
	MATH 052 Final Exam (<i>timed 3hrs.</i>)	

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 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

Contact your instructor to get permission to write the Final exam after you have completed all the Unit tests. The Final Exam **must** be written with an invigilator. **You must pass the Final exam to pass the course.**

DESCRIPTION	WEIGHTING
Unit R Test (May not be required; Unit 1 – 5 test weights will be adjusted)	8.3%
Unit 1 Test	8.3%
Unit 2 Test	8.3%
Unit 3 Test	8.3%
Unit 4 Test	8.3%
Unit 5 Test	8.3%
Final Exam	50%
	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](http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.14.pdf) policy for more information.
<http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.14.pdf>

COURSE GUIDELINES & EXPECTATIONS

The course is designed to be completed in one term. However, it can be completed sooner, depending on a number of factors including your beginning level of math skills, motivation, learning rate, and how much time you can actually study (average 10 – 15 hours per week to complete in 4 months).

If you do not understand something, seek help right away. In addition to the online course and your instructor, resources include your family and friends and the Math Help Centres. You can get free online tutoring from our instructional assistants in the Math Help Centres/Labs in E342 (Lansdowne) or CBA 109 (Interurban). Check the website at <https://camosun.ca/services/academic-supports/help-centres/math-help>

SCHOOL OR DEPARTMENTAL INFORMATION

Students with a record of poor attendance OR poor progress may be restricted from re-registering in Community Learning Partnerships Department courses.

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
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.