

COURSE SYLLABUS

COURSE TITLE: Math 038 Math for General Trades



CLASS SECTION: Math S07

TERM: W2024

COURSE CREDITS: 0

DELIVERY

METHOD(S): In

person

The COVID-19 pandemic has presented many challenges, and Camosun College is committed to helping you safely complete your education. Following guidelines from the Provincial Health Officer, WorkSafe BC, and the B.C. Government to ensure the health and wellbeing of students and employees, Camosun College is providing you with every possible protection to keep you safe. Our measures include COVID Training for students and employees, health checks, infection control protocols including sanitization of spaces, PPE and ensuring physical distancing. For details on these precautions please follow this

link: <http://camosun.ca/covid19/faq/covid-faqs-students.html>. However, if you're at all uncomfortable being on campus, please share your concerns with your Instructor. If needed, alternatives will be discussed.

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: Jean-Marc (JM) Miszaniec

EMAIL: MiszaniecJ@camosun.bc.ca

OFFICE: F365C

HOURS: By appointment

CALENDAR DESCRIPTION

Students in this course will complete a brief trades-oriented review of the basic computational and problem-solving skills required for further study in various Trades Foundation programs. Topics include: whole numbers, fractions, decimals, proportion, percent, powers, roots, graphs, formulas, measurement, and geometry.

Camosun College campuses are located on the traditional territories of the Lək'wəḡən and W SÁNEĆ peoples. We acknowledge their welcome and graciousness to the students who seek knowledge here. Learn more about Camosun's [Territorial Acknowledgement](#).

COURSE LEARNING OUTCOMES / OBJECTIVES

At the end of the course, students will be able to:

1. Demonstrate knowledge and skills in using the principles and operations of various math topics such as arithmetic, measurement, graphs, formulas, and geometry
2. Apply a variety of strategies in solving math-related problems
3. Apply knowledge and skills in various math topics to solve problems related to particular Trades Foundation Programs (except Professional Cook and Electrical programs)
4. Use knowledge of various math topics as a basis for further study in Trades Foundation Programs

- The course consists of 6 hours of class time and 4 hours of lab time per week.
 - Lab time includes but is not limited to tutorials with an instructor and/or instructional assistants and,
 - using the instructional resources in the Help Centre and library, which may be in-person or virtually.

REQUIRED MATERIALS & RECOMMENDED PREPARATION / INFORMATION

- textbook: *Line B, Solve Mathematical Problems*, *Trades Common Core*
- [Unit R Arithmetic Review booklet](#)
- [scientific calculator](#)

Supplemental Materials

- optional supplementary materials from [MATH 023-026](#)

additional math 038 materials can be found here: <https://acfmth.opened.ca/>.

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

The table below lists the eleven competencies or chapters in the Line B text that are required for each Trades Foundation Program (except Professional Cook and Electrical). Follow these steps to complete each competency:

- skip the Pre-Test
- study the explanations and examples
- answer and check **ALL** questions in the order listed in the table below
- ask the instructor for help whenever you need it

To prepare for the Final Test, write the Practice Test and review your results with the instructor.

MATH 038 course content		
<i>Unit R - Arithmetic Review (no calculator) [This is a Separate Booklet]</i>		
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	
Practice Test		
Unit R final test (no calculator)		
MATH 038 course content	Line B page #	question #
<i>Competency B-1 – Whole Numbers</i>		
	5	1-4
	3	1-5
	7	1-5
<i>Competency B-2 – Fractions</i>		
	15	1-4
	17	1-4
	20	1-4
	21	1-5
	11	1-20
	23	1-15
<i>Competency B-3 – Decimals</i>		
	32	1-2
	33	1-2
	37	1-5
	29	1-10
	38	1-15
<i>Competency B-4 – Metric and Imperial Measurements</i>		
	46	1-2
	49	1-6
	43	1-2
	50	1-2
<i>Competency B-5 – Ratio and Proportion</i>		
	59	1-12
	55	1-10
	62	1-10

Competency B-6 – Percent		
	69	1-4
	73	1-4
	67	1-5
	74	1-5
Competency B-7 – Powers and Roots		
	82	1
	84	1
	79	1-3
	85	1-3
Competency B-8 – Graphs		
	93	1-5
	96	1-2
	89	1-5
	98	A-E
Competency B-9 – Formulas		
	111	1-5
	105	1-7
	115	1-5
Competency B-10 – Perimeters, Areas, and Volumes		
	125	1-8
	121	1-8
	129	1-8
Competency B-11 – Angles and Triangles		
	142	1-4
	135	1-6
	151	1-6
MATH 038 Practice Test		
MATH 038 Final Test		

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

The course grade is either COM (complete) or IP (in progress) or NC (not complete), and is based on the student's score on the Final Test, which covers all of the required units (passing score 75%).

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

DESCRIPTION	WEIGHTING
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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.