

# COURSE SYLLABUS



**COURSE TITLE:** COMP 130 - Computing for Engineers

**CLASS SECTION:** COMP-130-X01A, COMP-130-X01B, COMP-130-X02A  
and COMP-130-X02B

**TERM:** Fall 2023

**COURSE CREDITS:** 3

**DELIVERY METHOD(S):** On Site

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

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](#).

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*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

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**NAME:** W Mao

**EMAIL:** [maow@camosun.ca](mailto:maow@camosun.ca)

**OFFICE:** TEC 236

**HOURS:** Wednesday 13:30 – 14:20 Thursday 13:30 -15:20

or by appointment via email

*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

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The calendar description is available on the web at <http://camosun.ca/learn/calendar/current/web/ics.html>

**PREREQUISITE(S):** None

**CO-REQUISITE(S):** None

**EXCLUSION(S):** None

## COURSE LEARNING OUTCOMES / OBJECTIVES

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

1. prepare an algorithm for solving a problem;
2. use functions and parameters appropriately and correctly;
3. define, reference and modify one- and two- dimensional arrays correctly;
5. perform engineering calculations using matrices using high-level functions;
6. use functions from selected libraries;

7. use effectively the computer environment for program development;
8. write program documentation appropriately;
9. write functions that are general solvers for engineering applications; and
10. test and debug code.

#### REQUIRED MATERIALS & RECOMMENDED PREPARATION / INFORMATION

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(a) Texts

Recommended: Moore, Holly. 2018. MATLAB® for Engineers. Salt Lake City: Pearson.

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

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The following schedule and course components are subject to change with reasonable advance notice, as deemed appropriate by the instructor.

Week	Date	Activity or Topic	Reference	Labs & Exams
1	Sept 4	MATLAB Intro, IDE	Ch 1, 2	
2	Sept 11	Built-In Functions, Matrices	Ch 3, 4	Lab 1
3	Sept 18	Plotting	Ch 5	Lab 1 & Quiz 1
4	Sept 25	User-Defined Functions	Ch 9	Lab 2 & Quiz 2
5	Oct 2	Console and File I/O, Selection Statements	Ch 6,8	Lab 3 & Quiz 3
6	Oct 9	Looping, Numerical Integration	Ch 7,8	Lab 4 & Quiz 4
7	Oct 16	Matrix Algebra	Ch 10	Lab 5 & Quiz 5
8	Oct 23	Review		Midterm
9	Oct 30	Matrix Algebra, Other Arrays	CH 10, 11	Lab 5,6 & Quiz 6
10	Nov 6	Advanced Graphics	Ch 14	Lab 6
11	Nov 13	Differential Equations, Finite Differences, and Interpolation	Ch 13	Lab 7 & Quiz 7
12	Nov 20	Symbolic Mathematics	Ch 12	Lab 8 & Quiz 8
13	Nov 27	Simulink	Ch 16	Lab 9 & Quiz 9
14	Dec 4	Review		

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 scan 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

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DESCRIPTION	WEIGHTING
Lab Assignments (9 lab assignments)	30%
Attendance	5%
Quizzes (9 quizzes, at the beginning of each lab)	10%
Midterm	20%
Final Exam (date and location TBD)	35%
	<b>TOTAL</b>
	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>

Late work will not be accepted, except by the instructor's prior written permission or in the presence of a dire and documented short-term medical or family emergency. Mark appeals must be made within 7 days of the mark being posted.

### Camosun Grading Systems

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Camosun has two grading systems: the standard 9-point system for most academic, technical and career-based programs, and a competency-based system for skills-based programs. There are also temporary grades that can be assigned for specific circumstances. Refer to <https://camosun.ca/registration-records/student-records/camosun-grading-systems> for more information.

## COURSE GUIDELINES & EXPECTATIONS

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Online references to the Matlab documentation, class notes provided through D2L.

Finish each lab before next lab starts. A late lab is subjected to an 20% penalty for each day after its due date. Must achieve a minimum of 55% on the midterm. Must achieve a minimum of 55% on the Final exam to pass the course.

## SCHOOL OR DEPARTMENTAL INFORMATION

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**Grade review:** You have 7 days after marks are posted to review them with your instructor

**Academic Dishonesty:**

1<sup>st</sup> violation: Minus the weight of the deliverable and a note on your departmental file

2<sup>nd</sup> violation: "F" in the course

3<sup>rd</sup> violation: [Student Misconduct Policy E-2.5](#) is applied

**Missed Examinations/Quizzes:** If a student misses a quiz, project or an exam, a mark of zero will be assigned unless there are extenuating circumstances. **You must provide a note from a medical practitioner (Doctor, Nurse, Psychologist, Councilor, etc.)** In such cases, the proportion of grade assigned to the missed quiz or exam will be added to the proportion assigned to the final exam. The final exam will be held during exam week. NO consideration will be given to any student wishing to write the exam at any other time than that assigned.

**Electronic Devices:** A student who has a cell phone or other unauthorized electronic device (e.g., iPad, laptop, playbook) on their person or around their desk during an exam will be guilty of cheating and will receive a grade of "F" in the course

## STUDENT RESPONSIBILITY

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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

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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	<a href="http://camosun.ca/advising">http://camosun.ca/advising</a>
Accessible Learning	<a href="http://camosun.ca/accessible-learning">http://camosun.ca/accessible-learning</a>
Counselling	<a href="http://camosun.ca/counselling">http://camosun.ca/counselling</a>
Career Services	<a href="http://camosun.ca/coop">http://camosun.ca/coop</a>
Financial Aid and Awards	<a href="http://camosun.ca/financialaid">http://camosun.ca/financialaid</a>
Help Centres (Math/English/Science)	<a href="http://camosun.ca/help-centres">http://camosun.ca/help-centres</a>
Indigenous Student Support	<a href="http://camosun.ca/indigenous">http://camosun.ca/indigenous</a>
International Student Support	<a href="http://camosun.ca/international/">http://camosun.ca/international/</a>
Learning Skills	<a href="http://camosun.ca/learningskills">http://camosun.ca/learningskills</a>
Library	<a href="http://camosun.ca/services/library/">http://camosun.ca/services/library/</a>
Office of Student Support	<a href="http://camosun.ca/oss">http://camosun.ca/oss</a>
Ombudsperson	<a href="http://camosun.ca/ombuds">http://camosun.ca/ombuds</a>
Registration	<a href="http://camosun.ca/registration">http://camosun.ca/registration</a>
Technology Support	<a href="http://camosun.ca/its">http://camosun.ca/its</a>
Writing Centre	<a href="http://camosun.ca/writing-centre">http://camosun.ca/writing-centre</a>

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

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### Academic Accommodations for Students with Disabilities

The College is committed to providing appropriate and reasonable academic accommodations to students with disabilities (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 [https://camosun.ca/sites/default/files/2021-05/e-1.1\\_0.pdf](https://camosun.ca/sites/default/files/2021-05/e-1.1_0.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 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 will be 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 <http://camosun.ca/sexual-violence>. To contact the Office of Student Support: [oss@camosun.ca](mailto:oss@camosun.ca) or by phone: 250-370-3046 or 250-370-3841

### 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 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.