

# COURSE SYLLABUS



COURSE TITLE: ICS 113  
CLASS SECTION: X01 & X02 / AB  
TERM: Winter 2023  
COURSE CREDITS: 3  
DELIVERY METHOD(S): In class

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](#).

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 determined to keep you safe. For details on current precautions, please follow this link: <http://camosun.ca/covid19/faq/covid-fags-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.

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*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 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: Mao  
EMAIL: [maow@camosun.ca](mailto:maow@camosun.ca)  
OFFICE: TEC 263 (Technology Building)  
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

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Learn the fundamental operations of the computer. You will discover a new way to look at computers by understanding and learning the appropriate use of computing and operating systems, computer architecture, data, and networks using a variety of software and hardware tools.

PREREQUISITE(S): None  
CO-REQUISITE(S): ICS / CET first year program  
EXCLUSION(S): Restricted to students in Computer Engineering Technician or Information and Computer Systems

## COURSE LEARNING OUTCOMES / OBJECTIVES

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

- Use network services including public drives and computer resources (Weeks 1 - 14)
- Install, manage, and explain an operating system, including storage management, memory management, and process scheduling (Weeks 1 - 14)
- Implement and evaluate a computer-based system, process, component, or program to meet desired needs through a hardware interface (Weeks 1 - 3, 7, 8, 14)
- Troubleshoot basic networking issues (Weeks 1, 2, 13, 14)
- Evaluate information, solve problems, and make decisions as they relate to ethics and security of computer systems (Weeks 1 - 4, 14)

Week numbers relate to the schedule listed in Course Content and Schedule below.

## REQUIRED MATERIALS & RECOMMENDED PREPARATION / INFORMATION

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- ICS 113 Lab Manual, Raspberry Pi (pre-assembled in the labs) as described in the ICS 113 Lab Manual,

You will require:

- a MicroSD card of minimum 32 GB
- a USB adapter / card reader for the MicroSD card
- **Optional, Suggested** Textbooks  
Mark G. Sobell and Matthew Helmke, A Practical Guide to Linux Commands, Editors, and Shell Programming, 4th Edition, Addison-Wesley, 2018

## 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. **In weeks where labs are due, they must be completed and handed in by the end of the designated lab time.**

WEEK or DATE RANGE	ACTIVITY or TOPIC	OTHER NOTES
1	Lecture: Operating Systems and UNIX/Linux Lab 1: CentOS	Start of Labs
2	Lecture: Windows Lab 2: Raspberry Pi	Lab 1 due
3	Lecture: Computer Architecture Lab 3: Remote Access Lab	Quiz 1
4	Lecture: Memory Management Lab 4: Windows 10 Installation Lab	Lab 2 due
5	Lecture: Python programming Lab 5: Windows 10 Customization Lab	Lab 3 due and Quiz 2
6	Lecture: Python (cont'd) Lab 6: File Operations	Lab 4 due
7	Reading Break	No labs
8	Lecture: Python + Pi Hat Lab 7: Pi Hat	Lab 5 due and Quiz 3
9	Lecture: Device Management Lab 8: Device Management Lab	Lab 6 due

WEEK or DATE RANGE	ACTIVITY or TOPIC	OTHER NOTES
10	Lecture: Networking Lab 9: Networking Lab	Lab 7 due and Quiz 4
11	Lecture: Networking Technology Lab 10: Troubleshooting	Lab 8 due
12	Lecture: Networking Security Lab: extra Lab troubleshooting	Lab 9 due and Quiz 5
13	Lecture: Scheduling and Review (Good Friday) Lab: extra Lab troubleshooting	Lab 10 due
14	Lecture: Review (Easter Monday) Lab: extra Lab troubleshooting	
TBA by Camosun	Final exam	

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 at <https://camosun.ca/services/academic-supports/accessible-learning/academic-accommodations-exams>.

## EVALUATION OF LEARNING

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DESCRIPTION		WEIGHTING
Final Exam	Must pass the final exam to pass the course	50%
Lab & Lecture Participation	Attendance & Punctuality, Lab hygiene & care, Organization & Readiness (e.g., remember Pi SD Card)	5%
Quizzes (no midterm)	Must have a passing quiz average to pass the course	25%
Lab Assignments	Must complete all labs to pass the course	20%
<b>TOTAL</b>		<b>100%</b>

If you have a concern about a grade you have received for an evaluation, please come and see me within 7 days of the grade being posted. Refer to the [Grade Review and Appeals Policy E-1.14](#) for more information.

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.

## COURSE GUIDELINES & EXPECTATIONS

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**Must complete all labs/ assignments and achieve a minimum average of 55% on the labs/ assignments.**

Late assignments and/or labs are subjected to a 30% penalty, except by the instructor's prior written permission or in the presence of a dire and documented short-term medical or family emergency.

**Must complete all quizzes and achieve a minimum average of 55% on quizzes/tests/midterm.**

**Must achieve a minimum average 55% on the Final Exam to pass the course.**

No leaving during any examination unless an accommodation in place.

## 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>

Support Service	Website
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.

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## 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.