

COURSE SYLLABUS



COURSE TITLE: ICS 113
CLASS SECTION: X01 & X02 / AB
TERM: FALL 2021
COURSE CREDITS: 3
DELIVERY METHOD(S): BLENDED: ONLINE LECTURES, IN-CLASS LABS

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: Kevin Belanger
EMAIL: belangerk@camosun.bc.ca
OFFICE: TEC 263 (Technology Building)
HOURS: IN CLASS: 8:30 AM - 12:30 PM, meetings 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

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

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

(a) ICS 113 Lab Manual, Raspberry Pi (pre-assembled in the labs) (i) as described in the ICS 113 Lab Manual, you will require:

(b) a MicroSD card of minimum 8 GB and ideally 16 GB capacity

(c) a USB adapter / card reader for the MicroSD card

(d) a webcam: not required but may assist in the efficiency of online collaboration

(e) **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

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

| WEEK or DATE RANGE | ACTIVITY or TOPIC | |
|--------------------|--|---------------------------------|
| Week 01 | Lecture: Operating Systems Lab 0: none (null) | No Class Monday (Labour Day) |
| Week 02 | Lecture: UNIX/Linux Lab 1: CentOS | Begin first lab (no lab due) |
| Week 03 | Lecture: Windows Lab 2: Raspberry Pi | Lab 1 due |
| Week 04 | Lecture: Computer Architecture Lab 3: Remote Access Lab | Lab 2 due |
| Week 05 | Lecture: Memory Management Lab 4: Windows 10 Installation Lab | Lab 3 due |

| WEEK or DATE RANGE | ACTIVITY or TOPIC | |
|--------------------|--|-----------------------------------|
| Week 06 | Lecture: Python programming Lab 5: Windows 10 Customization Lab | No Class Monday (Thanksgiving) |
| Week 07 | Lecture: Python (cont'd) Lab 6: File Operations | Lab 4 due |
| Week 08 | Lecture: Python + Pi Hat Lab 7: Pi Hat | Lab 5 due |
| Week 09 | Lecture: Device Management Lab 8: Device Management Lab | Lab 6 due |
| Week 10 | Lecture: Networking Lab 9: Networking Lab | Lab 7 due |
| Week 11 | Lecture: Networking Technology Lab 10: Troubleshooting | No Class Monday (Remembrance) |
| Week 12 | Lecture: Networking Security Lab: extra Lab troubleshooting | Lab 8 due |
| Week 13 | Lecture: Scheduling Lab: extra Lab troubleshooting | Lab 9 due |
| Week 14 | Lecture: Final Exam Review Lab: extra Lab troubleshooting | Lab 10 due |

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

| DESCRIPTION | | WEIGHTING |
|----------------------|---|-----------|
| Final Exam | Must pass the final exam to pass the course | 50% |
| Quizzes (no midterm) | Must have a passing quiz average to pass the course | 30% |

| DESCRIPTION | | WEIGHTING |
|---|---|-----------|
| Lab Assignments | Must complete all labs to pass the course | 15% |
| Lab & Lecture Participation | Attendance & Punctuality, Lab hygiene & care, Organization & Readiness (e.g., remember Pi SD Card) | 5% |
| 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. | | |
| TOTAL | | 100% |

COURSE GUIDELINES & EXPECTATIONS

Must complete all assignments.

Must achieve a minimum average of 55% on the assignments.

Must complete all labs.

Must achieve a minimum average of 55% on the labs.

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.

Must achieve a minimum average of 55% on quizzes.

Must 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. (or no leaving before the first nth of the exam period)

Must achieve a minimum average of 55% on the project.

SCHOOL OR DEPARTMENTAL INFORMATION

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

Academic Integrity Violations:

1st violation: minus the weight of the deliverable and a note on your departmental file.

2nd violation: F in the course

3rd violation: Student Conduct [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: The school's policy regarding electronic devices is that any student who has a cell phone or other unauthorized electronic device (ie. ipad, laptop, playbook, etc.) on their person or around their desk during an exam will be guilty of cheating and will a grade of "F" for the course.

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 |

Support Service

Website

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.