

COURSE SYLLABUS



COURSE TITLE: ECET 190
CLASS SECTION: X02
TERM: Fall 2024
COURSE CREDITS:
DELIVERY METHOD(S): Face to Face

For COVID-19 updates please visit <https://camosun.ca/about/covid-19-updates>.

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: Todd Rayson
EMAIL: raysont@camosun.ca
OFFICE: TEC 214, 250 370 - 4573
HOURS: By Appointment

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 barriers that impede success.

CALENDAR DESCRIPTION

PREREQUISITE(S): C in English 12 or C in Camosun Alternative
CO-REQUISITE(S): C in Math 11 or Math 072, Math 075, Math 135
EXCLUSION(S): N/A

COURSE LEARNING OUTCOMES / OBJECTIVES

Through lecture, reading material and project construction the student will be introduced to basic construction shop skills commonly required by employers in the electronics industry. Emphasis is on safe and correct use of basic hand and small power tools. Evaluation will be based on the competency demonstrated by the student.

Upon successful completion of this course a student will be able to:

- ✓ work safely in a shop environment with both hand and power tools
- ✓ design and produce sheet metal panels for mounting electronic devices
- ✓ produce working drawings suitable for production by commercial shops
- ✓ tap threads and/or use threaded inserts to produce threads
- ✓ specify and use various fasteners
- ✓ safely use a grinder for producing tools and sharpening
- ✓ name and describe the characteristics of materials commonly used in the electronics industry
- ✓ demonstrate the correct use of Vernier calipers and micrometers
- ✓ comply with health and safety legislation and industry standards when using shop equipment and soldering
- ✓ describe hazards related to soldering chemicals and materials
- ✓ describe the procedures used for avoiding ESD damage to electronic components
- ✓ demonstrate high reliability soldering and de-soldering techniques to military standards
- ✓ produce a working project from specifications that demonstrates quality soldering and shop skills

REQUIRED MATERIALS & RECOMMENDED PREPARATION / INFORMATION

- ◆ ECET 190 Course Notes will be available on D2L
- ◆ No textbook is required

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	OTHER NOTES
1	Drafting	
2	AutoCAD LT	
3-6	High Reliability Soldering	
7-10	Shop Skills	
11-14	Final Project	

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

The final course grade will be determined by the following components:

DESCRIPTION	WEIGHTING %
Drafting	10
High Reliability Soldering	30
Shop Skills	30
Final Project	25
Attendance/Equipment*	5
	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>

**A portion of your mark will be based on your respect for the college equipment, the cleanliness of your workstation, your participation in the cleaning crew and the cleanliness of the floor around your work station.*

Note: During the course you are responsible for putting all equipment away and keeping your area and the lab tidy. If there is broken or malfunctioning equipment, you are responsible for reporting it. You are required to do a daily inventory (at the beginning of the class) of your hand tools that are in the blue bin and report if any are missing or broken.

- *Lab cleanup begins 10 minutes before the end of the class.*

COURSE GUIDELINES & EXPECTATIONS

- Attendance to all labs is **mandatory**
- Students must obtain a minimum weighted average of **60% in theory evaluations** (tests, examinations etc.) in any course that is a pre-requisite for subsequent courses
- Students must obtain a minimum weighted average of **60% in lab evaluations** (lab performance, reports, etc.) in any course that is a pre-requisite for subsequent courses
- Students must obtain a minimum of **50% on the final project** for a course in order to receive a passing grade
- Failure to meet any one of these criteria will result in a student receiving a failing grade (F) for the course
- Mark penalties of 50% and 5% per day will be applied to all late assignments or projects
 - All course material must be handed in or you will receive an incomplete in the course
 - All course material must be handed in by the end of the last class
- A 20% penalty will be applied to the current project for Late Class Attendance as many important topics are discussed at the beginning of the class

SCHOOL OR DEPARTMENTAL INFORMATION

See the Trades and Tech, Electronics web page

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

Support Service	Website
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 Integrity

Students are expected to comply with all College policy regarding academic integrity; which is about honest and ethical behaviour in your education journey. The following guide is designed to help you understand your responsibilities: <https://camosun.libguides.com/academicintegrity/welcome>

Please visit <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.13.pdf> for Camosun's Academic Integrity policy and details for addressing and resolving matters of academic misconduct.

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 Progress

Please visit https://www.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 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” (<https://camosun.ca/registration-records/policies-and-procedures-students/registration-policies-students>) 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://www.camosun.ca/sites/default/files/2021-05/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 250-370-3841

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 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.

Looking for other policies?

The full suite of College policies and directives can be found here: <https://camosun.ca/about/camosun-college-policies-and-directives>

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.