COURSE SYLLABUS



COURSE TITLE: CIVE 141

CLASS SECTION: X01A, X01B

TERM: 2023W

COURSE CREDITS: 3

DELIVERY METHOD(S): Lecture, Field Assignments

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

Camosun College campuses are located on the traditional territories of the Ləkwənən and WSÁNEĆ peoples. We acknowledge their welcome and graciousness to the students who seek knowledge here.

Learn more about Camosun's

Learn more about Camosun's Territorial Acknowledgement.

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: Stephen Cowden

EMAIL: cowdens@camosun.ca

OFFICE: TEC 105

HOURS: Wednesdays 1:30pm to 2:30pm

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

Students learn the care and use of survey equipment for the collection of land and construction site measurements as typically used in civil engineering projects. Surveying skills acquired include: field book set up; level loop and traverse definition, measurement and balancing; use of an automatic level and a total station to enable collection documentation of elevations and topographic data.

PREREQUISITE(S): C in one of: Pre-calculus 12, Math 097, Math 107 or Math 115

CO-REQUISITE(S): CIVE 131 EXCLUSION(S): None

- Apply relevant safety regulations and best practices in the lab and in the field.
- Work as part of a survey crew to efficiently complete surveying assignments.
- Create station descriptions using measurements collected with compass and tape.
- Perform a pace-and-compass survey using calibrated pace length, compass, clinometer and hand level.
- Perform a peg test to check the accuracy of an auto level.
- Perform a closed loop differential leveling circuit of acceptable accuracy to determine station elevations.
- Survey a closed traverse using a total station and balance with appropriate software.

REQUIRED MATERIALS & RECOMMENDED PREPARATION / INFORMATION

Required:

A variety of required readings and documents will be posted, either as external links or as PDF files on the D2L site for the course. You can read these materials online or print them out, but they will be required reading, unless specifically marked as optional. All Field Assignment readings should be done prior to the lab period.

Required Materials – have required materials purchased prior to the start of week 2

Mask	Required for both in class and outside during labs	
Field Book	'Rite-in-Rain' : stapled (#351) or spiral bound (#353)	
2 mm Lead Holder	Staedtler 780C 2mm lead holder (note the model with the chrome top has a built-in pencil sharpener). Or similar.	
2mm 2H leads	Staedtler 2mm 2H leads (in tube). Or similar.	
Lead pointer	ead pointer Staedtler 502 2mm lead pointer (note the Staedtler 780C 2mm lead holder with the chrome top has a built-in pencil sharpener)	
White eraser	ser Staedtler white vinyl eraser	
Short ruler	ruler 6-inch ruler	
Calculator	Should have Degrees, Minutes, Seconds (DMS) conversion	

Recommended:

Rain coat (wind resistance is helpful) Wet weather boots Warm clothing Gloves Hat

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.

 Lecture:
 Monday
 1:30pm – 2:20pm
 CBA 116

 Lab Section X01A:
 Thursday
 8:30pm – 12:20pm
 TEC 145

 Lab Section X01B:
 Tuesday
 8:30pm – 12:20pm
 TEC 273

Week	Week of Monday	Activity or Topic	
1	January 9	Lecture: Course Introduction, Written Assignment - Lettering	
		Field Assignment: Compass Use, Pace Calibration	
2	January 16	Lecture: Differential Leveling	
		Field Assignment: Peg Test	
3	January 23	Lecture: QUIZ: Differential Leveling	
		Field Assignment: Differential Leveling	
4	January 30	Lecture: Direction and Distance	
4		Field Assignment: Differential Leveling	
5	February 6	Lecture : Angles and Angle Calculations, Written Assignment : Direction, Distance & Angles	
5		Field Assignment: Prism and Total Station Setup Practice	
6	February 13	Lecture: No Lecture: Thanksgiving	
0		Field Assignment: Total Station Introduction	
7	February 20	READING BREAK – No Classes	
8	February 27	Lecture: Practical Midterm Review	
0		Practice Practical Midterm	
9	March 6	Lecture: QUIZ: Angles and Distance	
9		Practical Midterm	
10	March 13	Lecture: Traverse Surveying	
10		Field Assignment: Reconnaissance Survey	
11	March 20	Lecture: Traverse Computations – Angular	
11		Field Assignment: Traverse Survey	
12	March 27	Lecture : Traverse Computations – Linear, Written Assignment : Traverse Computations	
12		Field Assignment: Traverse Survey	
12	April 3	Lecture: Topographic Survey	
13		In-class Assignment: Traverse Computations Using Excel	
14	April 10	Lecture: QUIZ: Traverse and Topographic Surveying	
		Field Assignment: Topographic Survey	
15 & 16	Exam Week	Written Final Exam – Date to be determined	

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

FVALUATION OF LEARNING

DESCRIPTION		WEIGHTING
DESCRIPTION		WEIGHTING
Assignments (3)		15%
Quizzes (2)		10%
Field Assignments (9)		25%
Practical Midterm		25%
Written Exam		25%
If you have a concern about a grade you have received for an evaluation, please come and see	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 <u>Grade Review and Appeals</u> policy for more information. http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.14.pdf

COURSE GUIDELINES & EXPECTATIONS

- An overall weighted average of 50% must be attained on all quizzes and assignments
- A mark of at least 50% must be obtained on both the Practical (Field) Exam and the Written Final Exam, otherwise an F will be awarded.
- All field and written assignments must be submitted to qualify to write the final exam.
- Late assignments work:
 - Will have 10% deducted if submitted before marked work has been returned to the class or solutions posted.
 - o Will receive NO mark if submitted after marked work has been returned to the class or solutions posted, but will be checked and count as submitted.
- Full attendance at the lab sessions is mandatory unless prior approval is granted by the instructor. Students must speak directly to the instructor.
- 5% will be deducted from the final grade for each absence from a lab without the instructor's prior permission or a doctor's certificate. <u>Late arrivals greater than 20 minutes will be considered an absence</u>.

If you wish to know more about Camosun's EDI policy, please see the <u>Equity, Diversity and Inclusion</u> <u>page</u>

Department:

- Civil Engineering Department. Chair is Zoe Broom, TEC 116.
- See the chair if you need:
 - o program help such as working out a part-time schedule
 - o help with transfer credits
 - o information on services from other departments.

See your instructor if you need help with the course.

School: School of Trades and Technology. Office TEC 169

- Dean is Fric Sehn
- Associate Dean is Ken Kosik
- Both are in TEC 169
- Student issues are looked after by the Associate Dean. However, if you need anything, go to the department chair first.

Equity, diversity, and inclusion (EDI) are central to Camosun's culture and values. The Camosun community and the engineering community at large commit to pursuing equity in education regardless of race, heritage, religion, gender or gender identity, and ability. We learn best when we feel safe. Inappropriate, hateful or demeaning comments or actions will not be tolerated. Your suggestions on how to make your experience here better are encouraged and appreciated. Please let me or the department chair know ways to improve your experience at Camosun. If you wish to know more about Camosun's EDI policy, please see the EDI page on the college's website: http://camosun.ca/about/policies/equity-diversity-inclusion.html

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

Support Service	Website
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.