COURSE SYLLABUS



COURSE TITLE: CIVE 142 - SURVEY 2

CLASS SECTION: X01/X02

TERM: 2024S

COURSE CREDITS: 3

DELIVERY METHOD(S): Labs

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

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

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: David Lev

EMAIL: leyd@camosun.ca

OFFICE: TEC264

HOURS: TBD, request by 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

Students traverse and survey a two to three hectare area of land using a total station with a data collector. Data is then uploaded to specialized software in order to create a digital surface and final topographic map. A survey layout is also conducted using a total station and data collector to enable construction of an engineering design.

PREREQUISITE(S): CIVE141 PRE or CO-REQUISITE(S): As Above EXCLUSION(S): none

COURSE LEARNING OUTCOMES / OBJECTIVES

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

- Determine the elevation of an inaccessible point by 'trigonometric leveling' using a Total Station.
- Determine the coordinates (N,E,Z) of an inaccessible point by 'triangulation' using a Total Station.
- Perform a closed traverse using a Total Station with a Data Logger.

- Survey a large rough land area: Retracement traverse and topographic data collection.
- Upload and Download survey data to and from a data logger.
 - o Manage and edit raw survey data logger files.
- Convert raw data to a field book file; import files into a civil survey software (i.e. Civil 3D).
- Use civil software to create a contour plan with annotated contours then plot a scale drawing.

The student will be able to participate in a group survey project that results in a large area being surveyed for later use with other courses.

- The student will perform one of two closed control traverses that share a common leg. A minimum of one of the traverses will include two or more OIPs.
- Precision for the traverse will be calculated and the traverse points adjusted using the compass method.
- The student will perform closed benchmark circuits that will be used to carry over an NAD 83 referenced elevation from a nearby OCM.
- The traverses will be adjusted for elevation and to use UTM coordinates using civil software to translate, rotate and change elevations of the points in each traverse as needed.
- Student survey groups will use total stations to collect side shots
- A contour map created and annotated.
- Additional site information from local government will be x-referenced to the drawing.

REQUIRED MATERIALS & RECOMMENDED PREPARATION / INFORMATION

Survey Supplies:

Field Book	'Rite-in-Rain' : stapled (#351 - preferred) orspiral bound (#353)	Required	
2 mm Lead Holder	Staedtler 780C 2mm lead holder Required		
2mm 2H leads	Staedtler 2mm 2H leads (in tube) Required		
Short ruler	6 inch ruler with both metric and inch Required		
White eraser	Staedtler white vinyl eraser	Required	
Lead sharpener	Staedtler 502 2mm lead sharpener (note themodel with the chrome tip has a built-in leadsharpener)	Required if you have the black tipped lead holder	

REFERENCE MATERIAL

Text: Kavanagh 2015, Surveying with Construction Application, 8th ed. [or 7th ed.]

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.

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SECTION	LAB	TIME	LOCATION
X01	Thursday PM	1:30-5:20pm	TEC273
	Friday AM	8:30-12:20pm	
X02	Thursday AM	8:30-12:20pm	TEC273
	Friday PM	1:30-5:20pm	

WEEK	WEEK BEGINNING	THURSDAY LAB	FRIDAY LAB
1	May 6, 2024	Introduction to Data Collectors	Multi-Set Angles and Traversing Using Data Collectors
2	May 13, 2024	Control Traverse Survey Using Data Collectors	Control Traverse Survey Using Data Collectors continued
3	May 20, 2024	Organization for Final Project	UTM and Big Field Control Traverses
4	May 27, 2024	UTM and Big Field Control Traverses	Topographic Survey Data Collection
5	June 3, 2024	Topographic Survey Data Collection	Surface Modeling in Civil3D
6	June 10, 2024	Trigonometric Leveling	Triangulation
7	June 17, 2024	Layout of Road Curve	
1	May 6, 2024	Introduction to Data Collectors	Multi-Set Angles and Traversing Using Data Collectors
2	May 13, 2024	Control Traverse Survey Using Data Collectors	Control Traverse Survey Using Data Collectors continued
3	May 20, 2024	Organization for Final Project	UTM and Big Field Control Traverses
4	May 27, 2024	UTM and Big Field Control Traverses	Topographic Survey Data Collection
5	June 3, 2024	Topographic Survey Data Collection	Surface Modeling in Civil3D
6	June 10, 2024	Trigonometric Leveling	Triangulation
7	June 17, 2024	Layout of Road Curve	

Note that this schedule is preliminary and may change during the term based on field conditions, student progress, or other factors.

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

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EVALUATION OF LEARNING

COMPONENTS	WEIGHT	COMMENTS
Labs	90%	Lab work broken out as follows:
Field Book		Formal field book entry for each lab (33%)
Lab work		Accuracy, calculations, etc. (37%)
Final Project		Topographic Map of Surveyed Site (20%)
Instructor Assessment	5%	Attendance, Punctuality
Participation	5%	Group Participation Assessment
Exams		No Exams
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 policy for more information.

http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.14.pdf

COURSE GUIDELINES & EXPECTATIONS

- All lab work & assignments must be completed and submitted.
 - Late assignments submitted before marked assignments have been returned to class will have 10% deducted.
 - o Late assignments submitted after marked assignments have been returned to class will be checked and count as submitted but will receive no mark.
- Full attendance at the lab sessions is mandatory unless prior approval is granted by the instructor.
 - O Students must speak directly to the instructor and will be granted approval to miss a lab only under extreme circumstances.
 - o In case of illness or other unscheduled cause for absence, the student must notify the instructor at least 30 minutes before class by email or by telephone.
 - o 2% will be deducted from the final mark for each absence from a lab without the instructor's prior permission or a doctor's certificate.
- Late arrivals greater than 20 minutes will be considered an absence.

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
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 https://camosun.ca/sites/default/files/2021-05/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 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. If you would like to receive a bonus mark, send me an email with the word bonus in the subject line before the due date of the quiz.

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.

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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.

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.

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