



CAMOSUN COLLEGE
School of Arts & Science
Department of Social Sciences

GEOG-219-002
Field Surveying
Winter 2019

COURSE OUTLINE

The course description is online @ <http://camosun.ca/learn/calendar/current/web/geog.html>

Ω Please note: This outline will not be kept indefinitely. It is recommended students keep this outline for their records, especially to assist in transfer credit to post-secondary institutions.

1. Instructor Information

(a) Instructor	Emrys Prussin
(b) Office hours	Mond (1030-1130), Wed (1130 – 1230), and other times available upon request.
(c) Location	Paul 237
(d) Phone	370-3352 Alternative: _____
(e) E-mail	prussine@camosun.bc.ca
(f) Website	D2L

2. Intended Learning Outcomes

(If any changes are made to this part, then the Approved Course Description must also be changed and sent through the approval process.)

Upon completion of this course the student will be able to:

1. Apply the core concepts of field surveying to enable accurate data collection.
2. Collect, correct and process field surveying data to ensure both accuracy and precision.
3. Use a variety of survey collection equipment with proficiency.

3. Required Materials

(a) Labs

All labs are available on the D2L website (to find them go to 'My Tools' → 'Content' → 'Labs'), please print each lab in advance to bring to lab with you.

(b) Text – Optional

There are a limited number of texts available for purchase in the bookstore and one copy on reserve in the library. This text is an additional resource that can enrich lessons and labs, but is not required.

“Surveying – 6th Edition”, by Jack McCormac, Wayne Sarasua and William Davis

(c) Protractor, ruler, calculator and eraser

Much of the work we will be doing will require the use of these tools, all of which are available for purchase in the bookstore. The Geography Department is able to provide a limited number of these items but you would be wise to purchase your own, if possible.

4. Course Content and Schedule

PREPAREDNESS:

This course runs from January to April and has many lab activities out of doors. You are requested to dress for the weather: boots, warm jackets, rain coats, umbrellas...whatever will make your three hours outside more endurable, if not enjoyable. In the case of extreme weather, the labs may be cancelled or altered so please ensure you check the course D2L site for any updates.

A ruler, protractor, pencil, eraser, calculator, and write-in-the-rain field book are all necessary items during lab classes.

During tests you will not be allowed to use your phone as a calculator if you don't have yours.

Lectures Section 001: Mondays 8:30PM - 10:20PM, Fisher Building, Room 338

Lectures Section 002: Mondays 1:30PM - 3:20PM, Fisher Building, Room 338

Labs Section 001: Wednesdays 8:30PM - 11:20PM, Fisher Building, Room 338

Labs Section 002: Wednesdays 1:30PM - 4:20PM, Fisher Building, Room 338

COURSE SCHEDULE

schedule is subject to change

Week of	Monday	Wednesday
07-Jan	Course Introduction	Lab 1: Measurement
14-Jan	Coordinate Systems	Lab 2: Coordinates
21-Jan	Map Features	Lab 3: Azimuths & Bearings
28-Jan	Distance Measurement	Unit Test #1
04-Feb	Angle Measurement	Lab 4: Loop Traverse
11-Feb	Global Positioning	Lab 4: Loop Traverse
18-Feb	Family Day	Reading Break
25-Feb	Leveling	Lab 5: Satellite Navigation
04-Mar	Unit Test #2	Lab 6: Leveling
11-Mar	Latitude and Departure	Lab 7: Latitude & Departures
18-Mar	Total Stations	Lab 8: Total Stations

25-Mar	Unit Test #3	Mapping Project
01-Apr	Mapping Project	Mapping Project
08-Apr	Mapping Project (computer lab)	Mapping Project (computer lab)

5. Basis of Student Assessment (Weighting)

Learning Opportunities

Lectures: There will be one hour and fifty minutes of lecture a week, normally on Mondays. These will give a foundation for being able to apply concepts in labs.

Practice Questions: Will be made available online and are essential to mastering the skills in this course.

Labs: There are eleven labs in the course. Each lab contains exercises to familiarize students with the tools and techniques of field surveying. A variety of different measurement techniques and surveying protocols will be practiced during the lab period.

Attendance is mandatory.

You must bring a ruler, protractor, pencil, eraser, calculator, and write-in-the-rain field book to each lab.

In the case of illness, the instructor must be contacted prior to the lab time and an alternate arrangement must be made; otherwise, a mark of zero will be assigned.

Assignments are due one week from when you start them, unless otherwise noted during the lab, late submissions are subject to a penalty of 10% per day, and will not be accepted after I have returned them marked.

Mapping Project: Students will be asked to participate in a team-based mapping project. I will assign you to a group and you will be asked to map a region of the campus using the skills you have gained in the course.

Tests: There are three Unit Tests in the course. These are not cumulative, only covering new material since the last test.

During tests you will not be allowed to use your phone as a calculator if you don't have yours.

1. Wednesday, **January 30th**
2. Monday, **March 4th**
3. Monday, **March 25th**

Assessment will be based on a mix of in-class tests, labs and a final cumulative project.

Unit Test #1	15%
Unit Test #2	15%
Unit Test #3	15%
Lab Exercises	44%
Mapping Project	<u>11%</u>
	100%

6. Grading System

- Standard Grading System (GPA)
- Competency Based Grading System

7. Recommended Materials to Assist Students to Succeed Throughout the Course

LEARNING SUPPORT AND SERVICES FOR STUDENTS

There are a variety of services available for students to assist them throughout their learning. This information is available in the College calendar, at Student Services or the College web site at camosun.ca.

STUDENT CONDUCT POLICY

There is a Student Conduct Policy **which includes plagiarism**. It is the student's responsibility to become familiar with the content of this policy. The policy is available in each School Administration Office, at Student Services and on the College web site in the Policy Section.

8. College Supports, Services and Policies



Immediate, Urgent, or Emergency Support

If you or someone you know requires immediate, urgent, or emergency support (e.g. illness, injury, thoughts of suicide, sexual assault, etc.), **SEEK HELP**. Resource contacts @ <http://camosun.ca/about/mental-health/emergency.html> or <http://camosun.ca/services/sexual-violence/get-support.html#urgent>

College Services

Camosun offers a variety of health and academic support services, including counselling, dental, disability resource centre, help centre, learning skills, sexual violence support & education, library, and writing centre. For more information on each of these services, visit the **STUDENT SERVICES** link on the College website at <http://camosun.ca/>

College Policies

Camosun strives to provide clear, transparent, and easily accessible policies that exemplify the college's commitment to life-changing learning. It is the student's responsibility to become familiar with the content of College policies. Policies are available on the College website at <http://camosun.ca/about/policies/>. Education and academic policies include, but are not limited to, Academic Progress, Admission, Course Withdrawals, Standards for Awarding Credentials, Involuntary Health and Safety Leave of Absence, Prior Learning Assessment, Medical/Compassionate Withdrawal, Sexual Violence and Misconduct, Student Ancillary Fees, Student Appeals, Student Conduct, and Student Penalties and Fines.

A. GRADING SYSTEMS <http://camosun.ca/about/policies/index.html>

The following two grading systems are used at Camosun College:

1. Standard Grading System (GPA)

Percentage	Grade	Description	Grade Point Equivalency
90-100	A+		9
85-89	A		8
80-84	A-		7
77-79	B+		6
73-76	B		5
70-72	B-		4
65-69	C+		3
60-64	C		2
50-59	D		1
0-49	F	Minimum level has not been achieved.	0

2. Competency Based Grading System (Non GPA)

This grading system is based on satisfactory acquisition of defined skills or successful completion of the course learning outcomes

Grade	Description
COM	The student has met the goals, criteria, or competencies established for this course, practicum or field placement.
DST	The student has met and exceeded, above and beyond expectation, the goals, criteria, or competencies established for this course, practicum or field placement.
NC	The student has not met the goals, criteria or competencies established for this course, practicum or field placement.

B. Temporary Grades

Temporary grades are assigned for specific circumstances and will convert to a final grade according to the grading scheme being used in the course. See Grading Policy at <http://camosun.ca/about/policies/index.html> for information on conversion to final grades, and for additional information on student record and transcript notations.

Temporary Grade	Description
I	<i>Incomplete:</i> A temporary grade assigned when the requirements of a course have not yet been completed due to hardship or extenuating circumstances, such as illness or death in the family.
IP	<i>In progress:</i> A temporary grade assigned for courses that are designed to have an anticipated enrollment that extends beyond one term. No more than two IP grades will be assigned for the same course.
CW	<i>Compulsory Withdrawal:</i> A temporary grade assigned by a Dean when an instructor, after documenting the prescriptive strategies applied and consulting with peers, deems that a student is unsafe to self or others and must be removed from the lab, practicum, worksite, or field placement.