

DEPARTMENT OF GEOGRAPHY - UNIVERSITY OF VICTORIA
COURSE OUTLINE - GEOGRAPHY 325 A01
FIELD SURVEYING
Fall 2015

The University of Victoria is committed to promoting, providing and protecting a positive and safe learning and working environment for all its members.

Instructor	Dr. Ian J. O'Connell (ianoc@uvic.ca, DTB B322, Local 7338)
Class time	Tuesday 8.30 - 9:20 COR B107 Wednesday 8:30 - 9:20 COR B107
Office Hours	See CourseSpaces or <i>by appointment</i>
Course Objectives	introduce the techniques and procedures of field surveying; consolidate understanding of fundamentals of geographic information; introduce leveling, stadia and precision traversing; complete individual and group field surveying exercises
Learning Outcomes	ability to apply core concepts in field surveying; proficiency in the ability to correctly record and calculate field surveying measurements; familiarity with surveying equipment; appreciation of error and error method corrections.
Class Meetings	Class will meet on a regular basis twice a week. Attendance in class is mandatory and expected in order for you to understand and complete lab assignments, and to pass examinations. Note: Not all material may be posted on CourseSpaces <i>NOTE: No Audio or Video recordings of Lectures or Labs permitted</i>
Field Projects	This course includes 3 graded field projects and 15 Exercises
Examinations	There will be one mid-term and a final examination.
Course Topics include:	Declination Azimuths Horizontal and Vertical Control systems Field Traversing Stadia Departures and Latitudes Precision Traversing Differential Leveling Precision Contouring Differential GPS

Course Evaluations and Deadline Dates

Component		Value (%)	Dates
A	Field Projects	40	See Below
	Exercises	7.5	See Below
B	Midterm	12.5	Tuesday 20 th October
	Final	40	Exam Period

Lab Grades

Individual (%)

Instrument and Field Orientation	0
Leveling	7.5
Stadia	12.5
Precision Traversing/GPS	20.0

LAB AND EXERCISE SCHEDULE - F2015

Week of:	Lab Description	Exercises Due
Sep 9	No Lab	
Sep 14	Field Orientation	
Sep 21	Leveling	Differential Leveling 1; Rise & Fall vs. Height of Collimation
Sep 28	Leveling con't	Differential Leveling 2; Contouring
Oct 5	Stadia	Balancing Interior Angles; North Conversions; Solve Angles & Direction
Oct 12	Stadia con't	Stadia w/ inter-sights; Closed-loop Stadia w/ Transit Rule
Oct 19	Stadia con't	Transit Rule; DMD
Oct 26	Traversing & NEZ Data Collection	Connecting Precision Traverse w/ Compass Rule
Nov 2	Traversing con't	Closed-loop Precision Traverse w/ Compass Rule
Nov 9	Reading Break - No Labs	
Nov 16	GPS Data Collection; Traversing con't	Compass Rule; Missing Leg
Nov 23	GPS & NEZ DTM's	Irregular Boundaries; Stream Discharge
Nov 30	No Labs	

Exercise Marks

0.50%	Completed perfectly including checks and balances.
0.25%	Completed entirely but w/ errors, or missing checks and balances.
0.00%	Did not hand in.

All exercises must be submitted at the beginning of the Lab Session as shown above, or into the 325 Lab Drop Box (Outside DTB B203) before the start of lab. Late assignments will not be considered for marks

Readings and Course Help

I will try to make copies available of the slides etc. before the beginning of class. These copies will be placed online on CourseSpaces (Make sure that you have a UVic NETLINK ID to access these and the lab assignments). Note that these do not replace the in-class materials or materials.

Electronic devices for use during exams are limited to non-graphing scientific calculators unless otherwise expressly permitted by the course instructor.

Equipment Policy

1. Survey instruments and equipment have been purchased specifically for the instruction of this course. Due to the delicate nature of the equipment and the minimal number of instruments for this purpose, the instruments will not be available for use in other Geography courses.

2. Survey instruments and other scientific equipment used in this course must not be used in or near salt water including beach areas below the high water mark.

3. Students are specifically requested NOT to repair, alter or adjust any equipment unless requested to do so by their instructor. Repairs and adjustments of equipment are handled through the course instructor.

4. All equipment required for projects must be used during regularly scheduled lab sections. Students are responsible for the care and security of all equipment while in their possession. Please report any damage or malfunctions promptly to your lab instructor.

5. When setting up instruments please ensure that they are not in vehicle or pedestrian traffic areas. You are responsible for any damage that occurs to the instruments if an accident should occur under these conditions.

6. Students are solely responsible for cleaning all tripods, rods and tapes BEFORE returning them to the trolley. Damp levels, transits and theodolites should be patted dry and then set in their respective cases with the lids open in order to air dry. Treat all instruments and equipment as though you were going to be the next person to use them.

7. Whilst outside you are required to wear the high visibility vests (supplied).

Campus Regulations

Unless otherwise directed by your lab instructor, no permanent markings can be left on any survey site on campus including pins, hubs, tapes, flags and the painting of objects.

Cutting of trees, branches and permanent flagging of vegetation is specifically prohibited on campus. Students receiving complaints from any campus officials while doing their field work should report such matters to the course instructor (local 7338) as soon as possible.

Note: Students will be expected to use basic trigonometry when working with their survey data. You will need a calculator with trigonometric and decimal degree functions for most of that work. Suitable clothes for field work on muddy or wet areas should be worn for most laboratory exercises.

Warning: Academic integrity requires commitment to the values of honesty, trust, fairness, respect and responsibility. It is expected that students, faculty members and staff at the University of Victoria, as members of an intellectual community, will adhere to these ethical values in all activities related to learning, teaching, research and service. Any action that contravenes this standard, including misrepresentation, falsification or deception, undermines the intention and worth of scholarly work and violates the fundamental academic rights of members of our community. Students are advised to consult the university's Policy on Academic Integrity in the University Calendar. The instructor reserves the right to use plagiarism detection software programs to detect plagiarism in term papers.

Lab projects are due at the **beginning** of your scheduled lab time. Students submitting labs late will be penalized. The initial late penalty is **25%**. For every day after that, you will lose **25%** per day. An 'N' grade is given when a student has missed one or more components of a course and does not reach a passing

grade. **Failure to complete an assignment (Labs) or exam (midterm, or final), without permission from the instructor, will result in an ‘N’ grade, which equals a Grade Point Value of 0.** Exceptions will only be granted for medical reasons (requiring a written report from a medical practitioner as soon as possible stating your inability to attend class). The written report must be submitted as soon as possible. The course instructor can only grant exceptions.

University Grading Scale

A+	A	A-	B+	B	B-	C+	C	D	F
90-100%	85-89%	80-84%	77-79%	73-76%	70-72%	65-69%	60-64%	50-59%	0-49%

Course Experience Survey (CES)

I value your feedback on this course. Towards the end of term, as in all other courses at UVic, you will have the opportunity to complete an anonymous survey regarding your learning experience (CES). The survey is vital to providing feedback to me regarding the course and my teaching, as well as to help the department improve the overall program for students in the future. The survey is accessed via MyPage and can be done on your laptop, tablet, or mobile device. I will remind you and provide you with more detailed information nearer the time but please be thinking about this important activity during the course.

Students with diverse learning styles and needs are welcome in this course. In particular, if you have a disability/health consideration that may require accommodations, please feel free to approach me and/or the Resource Centre for Students with a Disability (RCSD) as soon as possible. The RCSD staffs are available by appointment to assess specific needs, provide referrals and arrange appropriate accommodations <http://rcsd.uvic.ca/>. The sooner you let us know your needs the quicker we can assist you in achieving your learning goals in this course.