

DEPARTMENT OF GEOGRAPHY - UNIVERSITY OF VICTORIA  
COURSE OUTLINE - GEOGRAPHY 325  
FIELD SURVEYING (A01-A05)  
Fall 2014

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

<b>Instructor</b>	Dr. Ian J. O'Connell (ianoc@uvic.ca, DTB B322, Local 7338)
<b>Class time</b>	Tuesday 8.30 - 9:20 COR B107 Wednesday 8:30 - 9:20 COR B107
<b>Office Hours</b>	See CourseSpaces or <i>by appointment</i>
<b>Course Objectives</b>	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
<b>Learning Outcomes</b>	ability to apply core concepts in field surveying; proficiency in the ability to correctly record and calculate field surveying measurements; familiarity with surveying equipment (Electronic Theodolites, Total Stations); appreciation of error and error method corrections.
<b>Class Meetings</b>	Class will meet on a regular basis <b>twice</b> a week. Attendance in class is <b>mandatory</b> and <b>expected</b> in order for you to understand and complete lab assignments, and to pass examinations. Note: <b>Not</b> all material may be posted on CourseSpaces  <i>NOTE: No Audio or Video recordings of Lectures or Labs permitted</i>
<b>Field Projects</b>	This course includes 5 graded field projects
<b>Examinations</b>	There will be <b>one</b> mid-term and a <b>final</b> examination.
<b>Course Topics include:</b>	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
B	Midterm	15	Wednesday 15th October
	<b>Final</b>	<b>45</b>	<b>Exam Period – see Calendar for details</b>

### Lab Grades

### Individual (%)

Instrument and Field Orientation	5.0
Leveling	5.0
Stadia	10.0
Precision Traversing	15.0
Contouring	5.0

### LAB TIMETABLE

<u>Week of Project</u>		<u>Due</u>	<u>Value</u>
Sep 8	Orientation		
Sep 15	Leveling		
Sep 22	Leveling – con't	Orientation Project	[5%]
Sep 29	Stadia		
Oct 6	Stadia – con't	Leveling Project	[5%]
Oct 13	Stadia – con't		
Oct 20	Traverse	Stadia Project	[10%]
Oct 27	Traverse – con't		
Nov 3	Traverse – con't		
<i>Nov 10</i>	<i>Reading Break – no labs</i>		
Nov 17	Contouring	Traverse Project	[15%]
Nov 24	Contouring – DTB A249	Contouring Project	[5%]
		<b>TOTAL:</b>	<b>[40%]</b>

**Late Assignments:**

Deadline for submission of lab assignments will be given to you during labs. Lab assignments are due in the first **10** minutes of lab. Students submitting assignments late will be penalized. The initial late penalty is **25%**. For every day after that, you will lose **25%** per day. All assignments must be submitted. Exceptions will only be granted for medical reasons (requiring a written report from a medical practitioner stating your inability to attend class). The written report must be submitted as soon as possible. The course instructor can only grant exceptions.

**Readings and Course Help**

This course has no required text; however, practice assignments (**un-graded**) will be posted in order for you to implement theory learnt both in the field and in class. It is highly recommended that you attempt these as they will provide significant practice for both the midterm and final. These assignments **will** constitute material that is **examinable**.

I will try to make copies available of the slides etc. before the beginning of class. These copies will be placed online on CourseSpaces. 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.**

**Undergraduate Grading\*\***

<i>Passing Grades</i>	<i>Description</i>
A+ A A-	<b>Exceptional, outstanding and excellent</b> performance. Normally achieved by a minority of students. These grades indicate a student who is self-initiating, exceeds expectation and has an insightful grasp of the subject matter.
B+ B B-	<b>Very good, good and solid</b> performance. Normally achieved by the largest number of students. These grades indicate a good grasp of the subject matter or excellent grasp in one area balanced with satisfactory grasp in the other area.
C+ C	<b>Satisfactory, or minimally satisfactory.</b> These grades indicate a satisfactory performance and knowledge of the subject matter.
D	<b>Marginal</b> Performance. A student receiving this grade demonstrated a superficial grasp of the subject matter.

\*\* As stated in the 2014-2015 Calendar

## 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.

**Geography Departmental web site:** <http://geography.uvic.ca/>  
**GEOPLAN** planning guide: <http://www.geog.uvic.ca/moodle/> [Login as a guest]  
**Undergraduate Advisor:** Dr. Phil Wakefield (philw@geog.uvic.ca)  
**Graduate Advisor:** Dr. Reuben Rose-Redwood (redwood@uvic.ca)

*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.*

### **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.