

DEPARTMENT OF GEOGRAPHY - UNIVERSITY OF VICTORIA  
COURSE OUTLINE - GEOGRAPHY 222  
INTRODUCTION TO MAPS AND GIS

Spring 2018

*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** Monday 10:00 - 10:50 DTB A110  
Thursday 10:00 - 10:50 DTB A110

**Labs** DTB A251/A253

**Office Hours** See CourseSpaces or *by appointment*

**Course Objectives** introduce fundamentals of geographic information;  
introduce different types of spatial data;  
introduce Geographic Information Systems;  
gain familiarity with GIS software;  
introduce digital mapping;  
introduce GIS applications.

**Learning Outcomes** ability to complete continuous and discrete geo-referencing;  
ability to read and calculate scales;  
ability to understand, evaluate and select suitable map projections;  
ability to classify geographic information;  
ability to differentiate between different types of maps;  
describe how GIS can be used to solve problems;  
ability to explore GIS data, metadata and maps;  
basic digital GIS map skills.

**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.

**Class Meetings** Class will meet on a regular basis twice a week. Attendance in class is expected in order for you to understand and complete lab assignments, and to pass examinations. Attendance will be taken. *No audio or video recordings are permitted unless approved in writing (in advance) by the course instructor*

**Labs** This course includes 7 graded lab assignments and 1 graded Lab Exam. You will have space on

our servers to complete assignments – only materials relating to Geog222 can be stored or printed– personal or private materials are expressly forbidden to be stored on our servers.

**Examinations** There will be one mid-term, a Lab exam, and a final examination.

**Readings and Course Help**

I will try to make available copies of the slides etc. before the beginning of class. These copies will be placed online on CourseSpaces (Please make sure that you have a UVic NETLINK ID to access these). I may from time to time also post relevant readings on CourseSpaces – these will be examinable. There is no textbook for this course.

Topic handouts based on lecture presentations will be provided before the beginning of class meetings on CourseSpaces. These handouts will be removed **7 days** after the posting date. Students are responsible for downloading/saving and completing notes packages. *If you miss any material, make arrangements to get handouts from a fellow student, not from the instructor.*

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

**Course Evaluations**

	Value	Dates
Lab Assignments	30%	(See below)
Lab Exam	15%	Week of 19 <sup>th</sup> March
Midterm	15%	22 <sup>nd</sup> February
Final Exam	40%	Final Exam Period

**Schedule**

Week	Dates	Lab	Due
1	Jan 1 – Jan 5	No Lab	
2	Jan 8 – Jan 12	Lab 0 Orientation (Mandatory)	
3	Jan 15 – Jan 19	Lab 1 Projections (4%)	
4	Jan 22 – Jan 26	Lab 2 ArcMap (4%)	Lab 1
5	Jan 29 – Feb 2	Lab 3 Queries (4%)	Lab 2
6	Feb 5 – Feb 9	Lab 4 Buffers (4%)	Lab 3
7	<b>Feb 12 – Feb 16</b>	<b>Reading Break</b>	
8	Feb 19 – Feb 23	Lab 5 Overlays (5%)	Lab 4
9	Feb 26 – Mar 2	Lab 6 Raster Analysis (5%)	Lab 5
10	Mar 5 – Mar 9	Lab 7 Network Analysis (4%)	Lab 6
11	Mar 12 – Mar 16	Lab Review	Lab 7
12	Mar 19 – Mar 23	Lab Exam	
13	Mar 26 – Mar 30	No lab (Easter Friday)	
14	April 2 – Apr 6	No lab (Easter Monday)	

**Late Assignments**

Lab assignments are due at **beginning of 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, lab exam 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%

**Lab Guidelines for The Geomatics Teaching Laboratory (David Turpin Building A251/A253)**

Use of this lab and facilities is governed by UVic's Responsible Use for Information Technology Services (Policy 6030). Please familiarize yourself with this policy.

Time may be required outside the scheduled lab hours to complete laboratory assignments. Check the schedules posted outside of A251 and A253 for available times.

All submitted labs must be typed, 1.5 spaced, 12 point font - *except for the first lab (handout).*

**No submission of labs by e-mail or as attachments.**

Any discrepancy with lab grades must be reported to your Lab Instructor, the Senior Laboratory Instructor, or the Course Instructor within **seven days** of receiving the marked assignment.

Unless otherwise stated students are expected to complete assignments **independently**.

**Note:** Many of the questions in the lab assignments are designed to test your understanding of the processes you are running. If the lab assignment asks you to explain, or discuss something, a one sentence answer is not sufficient - show that you understand what you are doing. **Plagism and/or copying answers from each other OR straight out of the lab manual verbatim will not be tolerated, and will result in a zero.**

The Geomatics Teaching Laboratory (David Turpin Building A251/A253) is open daily from 8:30 am to 4:30 pm. Access to the Laboratory is restricted after 4:30 pm for security purposes.

You are permitted to print a maximum of 40 pages using the Laboratory's printer.

**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 Centre for Accessible Learning (CAL) as soon as possible. The CAL staff are available by appointment to assess specific needs, provide referrals and arrange appropriate accommodations <https://www.uvic.ca/services/cal/> The sooner you let us know your needs the quicker we can assist you in achieving your learning goals in this course. **Please note:** You are under no obligation to disclose.*