INTRODUCTION TO MAPS AND GIS
Summer 2016

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 12:30 - 14:20  Mac 283
Tuesday 12:30 - 14:20  Mac 283

Labs
DTB A251

Office Hours
See CourseSpaces or by appointment

Course Objectives
- introduce fundamentals of geographic information;
- introduce different types of maps and map reading;
- introduce Geographic Information Systems;
- gain familiarity with GIS software; and
- 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.

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

Course Evaluations

<table>
<thead>
<tr>
<th></th>
<th>Value</th>
<th>Dates</th>
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<tbody>
<tr>
<td>Lab Assignments</td>
<td>30%</td>
<td>(See below)</td>
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<tr>
<td>Lab Exam</td>
<td>15%</td>
<td>Week of 20th June</td>
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<tr>
<td>Midterm</td>
<td>15%</td>
<td>30th May</td>
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<tr>
<td>Final Exam</td>
<td>40%</td>
<td>Tuesday 21st June</td>
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Lab Schedule (week of) % Lab Date (week of)
LAB 1: Projections, Coordinate Systems, Scale (4%) May 9th
LAB 2: Introduction to ArcGIS (4%) May 9th
LAB 3: Attribute and Spatial Queries (4%) May 16th
LAB 4: Buffer (4%) May 23rd
LAB 5: Overlay (5%) May 30th
LAB 6: Raster Analysis (5%) June 6th
LAB 7: Network Analysis (4%) June 13th
LAB EXAM (15%) June 20th

Late Assignments
Wednesday’s Lab assignments are due at 12.30 on Thursday and Thursday’s Lab assignments are due at 12.30 on Friday. 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

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<tr>
<th>Grade</th>
<th>Percentage</th>
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<tr>
<td>A+</td>
<td>90-100%</td>
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<tr>
<td>A</td>
<td>85-89%</td>
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<tr>
<td>A-</td>
<td>80-84%</td>
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<tr>
<td>B+</td>
<td>77-79%</td>
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<tr>
<td>B</td>
<td>73-76%</td>
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<tr>
<td>B-</td>
<td>70-72%</td>
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<tr>
<td>C+</td>
<td>65-69%</td>
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<tr>
<td>C</td>
<td>60-64%</td>
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<tr>
<td>D</td>
<td>50-59%</td>
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<tr>
<td>F</td>
<td>0-49%</td>
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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.

The lab must be submitted to the Geog222 dropbox (beside the Geography main office) before your scheduled submission time (Wednesday’s lab submit on Thursdays before 4.30 – Thursday’s Lab submit Friday before 4.30).

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.

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. Plagiarism 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 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.