

## GEOG205

## Cartography and Geomatics, Winter 2023

**Course:** Roger Wheate (8-307) [wheate@unbc.ca](mailto:wheate@unbc.ca) or [roger.wheate@unbc.ca](mailto:roger.wheate@unbc.ca)  
**Lectures:** Tuesday/Thursday 10:30 – 11:20pm; 7-150  
**Lab SLI:** Matt McLean : [matt.mclean@unbc.ca](mailto:matt.mclean@unbc.ca)  
**Lab TA:** Emily Bornestig: [emily.bornestig@unbc.ca](mailto:emily.bornestig@unbc.ca)  
Monday 11.30-14.20; Friday 8.00 -10.50

DATE	TOPICS	LABS
<b>January</b>		
Jan 4-6	Introduction;	NO LABS
9-13	Map basics; Data input	<i>Lab 1: Intro to mapping software</i>
16-20	Generalisation; Symbolisation	<i>Lab 2: Topographic Maps / Data</i>
23-27	Lettering; Ancillary info	<i>Lab 3: Data input</i>
<b>February</b>		
Jan 30-Feb 3	Thematic maps: Points, lines, areas	<i>Lab 4: Symbolization-output</i>
6-10	Relief depiction; DEMs	<i>Lab 5: Thematic maps</i>
13-17	Map Coordinates; <i>Midterm (15%)</i>	<i>Lab 6: Relief – DEMs</i>
20-24	<b>Reading Week – no classes</b>	<b>No Labs</b>
<b>March</b>		
Feb 27-Mar3	Remote sensing; satellite images	<i>Lab 7: Web mapping</i>
6-10	Projects; mountain cartography	<i>Lab 8: Google Earth</i>
13-17	Map projections; types and GIS	<i>Lab 9: Project – data assembly</i>
20-24	History of cartography; Digital age	<i>Lab 10: Project – data / design</i>
27-31	GPS / course summary review	<i>Lab 11: Project – complete map</i>
<b>April</b>		
3-6	<i>Midterm2 – April 4<sup>th</sup> (10%)</i>	<i>April 6 = Last day of classes</i>
11-21 Exams	<i>Projects due April 6</i>	<i>no final exam in exam period</i>

### COURSE EVALUATION

Labs: 35% Lab assignments (5% each)  
Quizzes 15% Take home quiz – Feb 3 (8th); Feb 17 (Mar 2nd); Mar 17 (22nd) 3 x 5%  
Mid-terms: 25% Feb 16 / April 4 (15% / 10%)  
Map project 25% due April 6

**REFERENCES:** NO required text – library books on Cartography, and selected webpages

Lab / lecture notes: <http://gis.unbc.ca/courses/geog-205>

**Selected webpages** *General and pre-midterm lecture topics*

Introduction/map data <https://tmackinnon.com/cartography>

GIS/mapping data: <https://canadiangis.com>

Ancillary information [http://www.wvu.edu/huxley/spatial/tut/what\\_all\\_maps\\_must\\_have.htm](http://www.wvu.edu/huxley/spatial/tut/what_all_maps_must_have.htm)

PGmap online: <https://pgmap.princegeorge.ca/Html5Viewer/index.html?viewer=PGMap>

BC iMap: <https://maps.gov.bc.ca/ess/hm/imap4m/>

Atlas of Canada: <https://atlas.gc.ca/toporama/en/index.html>

Thematic Mapping: <https://geographyfieldwork.com/DataPresentationMappingTechniques.htm>