

## GEOG205 Cartography and Geomatics, Winter 2024

**Course:** Roger Wheate (8-307) [wheate@unbc.ca](mailto:wheate@unbc.ca) or [roger.wheate@unbc.ca](mailto:roger.wheate@unbc.ca)  
**Lectures:** Monday/Friday 8:30 – 9:20pm; 10-4034  
**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) Dinesh Bhatt: [dbhatt@unbc.ca](mailto:dbhatt@unbc.ca)  
Wednesday/Thursday 8.30-11.20; Friday 11.30 -14.20  
Lab / lecture notes: <http://gis.unbc.ca/courses/geog-205>

DATE	TOPICS	LABS
<b>January</b>		
Jan 5	Introduction;	NO LABS
8-12	Map basics; Map Coordinates	<i>Lab 1: Intro to mapping software</i>
15-19	Data input; Generalisation	<i>Lab 2: Topographic Maps / Data</i>
22-26	Symbolisation; Lettering	<i>Lab 3: Data input</i>
<b>February</b>		
Jan 29-Feb 2	Ancillary info; Thematic maps- Points	<i>Lab 4: Symbolization-output</i>
5-9	Thematic-lines/areas; Relief depiction	<i>Lab 5: Thematic maps</i>
12-16	Digital Elevation Models; <i>Midterm (15%)</i>	<i>Lab 6: Relief – DEMs</i>
19-23	<b>Reading Week – no classes</b>	<b>No Labs</b>
<b>March</b>		
Feb 26-Mar 1	Remote sensing; Satellite images	<i>Lab 7: Web mapping</i>
4-8	Map projections; types and GIS	<i>Lab 8: Google Earth</i>
11-15	Mountain cartography; Projects ( <b>ONLINE</b> )	<i>Lab 9: Project – data assembly</i>
18-22	History of cartography; Digital age	<i>Lab 10: Project – data / design</i>
25-28	GPS / (Easter Friday)	<i>Lab 11: Project – complete map</i>
<b>April</b>		
2-5	(Easter Monday); course review	<i>(Friday lab section) – complete map</i>
8-9	<i>Midterm2 – April 8<sup>th</sup> (10%)</i>	<i>April 9 = Last day of classes</i>
10-20 Exams	<i>Projects due April 10</i>	<i>no final exam in exam period</i>

### COURSE EVALUATION

Labs: 35% Lab assignments (5% each)  
Quizzes 15% Take home quiz – Jan 12; Feb 6; Mar 8 3 x 5%  
Mid-terms: 25% Feb 16 / April 8 (15% / 10%)  
Map project 25% due April 10

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

*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.www.edu/huxley/spatial/tut/what\\_all\\_maps\\_must\\_have.htm](http://www.www.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/>

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