

GEOG205

Cartography and Geomatics, Winter 2023

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

DATE	TOPICS	LABS
January		
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>
February		
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	Reading Week – no classes	No Labs
March		
Feb 27-Mar3	Remote sensing; satellite images	<i>Lab 7: Web mapping</i>
6-10	Mountain cartography; Projects;	<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>
April		
3-6	<i>Midterm2 – April 4th (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

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>