

GEOG357 Syllabus Fall 2023

Instructor: Roger Wheate, 8-307, 960-5865; wheate@unbc.ca

Lectures: Tuesday/Thursday 10.30-11.20, 8-160

Labs: Wednesdays 15.00-17.50

<i>Date</i>	<i>Lecture Topics</i>	<i>Lab</i>
Sept 2023		
6-8	Introduction	No lab
11-15	Electro-Magnetic Spectrum / Image data-display	<i>Lab 1: Image display and DNs</i>
18-22	Unsupervised and supervised classification	<i>Lab 2: Unsupervised Classn</i>
25-28	Sensors-platforms / Band ratios	<i>Lab 3: Supervised Classn</i>
October		
2-6	Indices <i>and</i> Transforms;	<i>Lab 4: Ratios and indices</i>
10-13	Env.Change / <i>Mid-Term Exam (15%)</i>	<i>Lab 5: Environmental Change</i>
16-20	Feature extraction / Env. Change demos	<i>Lab 6: Feature extraction</i>
23-27	Glaciers / Thermal RS	<i>Lab 7: Glaciers</i>
November		
(Oct)30-3	Change detection / project options	<i>Lab 8: Change detection</i>
6-9	DEMs / Microwave - RADAR	<i>Lab 9: DEMs</i>
13-17	LiDAR / UAV-LiDAR@UNBC (guest)	<i>Lab 10: Projects-data</i>
20-24	High resolution sensors / Planetary RS	<i>Lab 11: data processing</i>
27-Dec 1	RS Software -Course review / <i>Exam2 (10%)</i>	<i>Lab 12: project write-up</i>
Dec 5	Project demos	

Evaluation 100%

- Exams: Oct 12, Nov 30 + 5% take-home Quiz 30%
- Environmental Change exercise, Nov 8 10%
- Article review Nov 16 10%
- Lab exercises 5 x 5% 25%
- Final project, Dec 7 25%