

GEOG357 Syllabus Fall 2024

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

Lectures: Tuesday/Thursday 10.30-11.20, 5-174

Labs: Wednesdays 15.00-17.50, 8-125

<i>Date</i>	<i>Lecture Topics</i>	<i>Lab</i>
Sept 2024		
4-6	Introduction	No lab
9-13	Electro-Magnetic Spectrum / Image data-display	<i>Lab 1: Image display and DNs</i>
16-20	Unsupervised / supervised classification	<i>Lab 2: Unsupervised Classification</i>
23-27	Sensors-platforms / Band ratios	<i>Lab 3: Supervised Classification</i>
October		
Sept30-Oct4	Indices / Transforms	<i>Lab 4: Ratios and indices</i>
7-11	Feature extraction / Thermal RS	<i>Lab 5: Feature extraction</i>
15-18	Env. Change / <i>Mid-Term Exam (15%)</i>	<i>Lab 6: Env. Change (prep)</i>
21-25	Glaciers / Change detection	<i>Lab 7: Glaciers</i>
28-Nov 1	Projects / Env. Change class demos	<i>Lab 8: Change detection</i>
November		
4 – 8	DEMs / Microwave-RADAR	<i>Lab 9: DEMs</i>
12-15	Hyperspectral / LiDAR	<i>Lab 10: Projects-data</i>
18-22	High resolution sensors / Planetary RS	<i>Lab 11: Data processing</i>
25-29	RS Software-course review / <i>Exam2 (10%)</i>	<i>Lab 12: project write-up</i>
Dec 2-3	Project demos – 3-4 minutes each	
Dec 5-16	exam period (no exam in this course)	

Evaluation 100%

- Exams: Oct 17, Nov 28 25%
- Environmental Change exercise, Oct 31 10%
- Lab exercises 8 x 5% 40%
- Final project, Dec 6 20 + 5% (project/outline)