

## GEOG357 Syllabus Fall 2020

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

Lectures: Wednesday/Friday 9.30-10.20 or online

Labs: Thursdays 11.30-14.20 or online

<i><b>Date</b></i>	<i><b>Lecture Topics</b></i>	<i><b>Lab</b></i>
<b>Sept 2020</b>		
9-11	Introduction; Electro-Magnetic Spectrum	<i>Lab 0: Checking the connection</i>
14-18	Image data-display; Sensors/platforms	<i>Lab 1: Image display and DNs</i>
21-25	Unsupervised / Supervised Classification	<i>Lab 2: Unsupervised Classification</i>
28-Oct 2	Band ratios / Indices	<i>Lab 3: Supervised Classification</i>
<b>October</b>		
5-9	Transforms / Image interpretation	<i>Lab 4: Ratios and indices</i>
13-16	<i><b>Midterm Exam</b></i> / Feature extraction	<i>Lab 5: Environmental Change</i>
19-23	Env.Change demos; Change detection	<i>Lab 6: Lab changed to demos</i>
26-30	Thermal RS / New millenium sensors	<i>Lab 7: Feature extraction</i>
<b>November</b>		
2-6	Glaciers / DEMs	<i>Lab 8: Glaciers / change</i>
9-13	<i>Remembrance Day</i> / Project review	<i>Lab 9: DEMs</i>
16-20	Microwave – RADAR / LiDAR	<i>Labs 10-12: Project time</i>
23-27	Planetary RS; Software / Course review	
30-Dec 4	<i><b>Second exam</b></i> / Project demos	
Dec 8	Projects due	

### **Evaluation 100%**

- Exams: Oct 14, Dec 2 30%
- Environmental Change exercise 10%
- Article review Nov 15 10%
- Lab exercises 5 x 5% 25%
- Final project, Dec 8 25%