GEOG357 Syllabus Fall 2025

Instructor: Roger Wheate, 8-307, 960-5865; wheate@unbc.ca Lectures: Monday/Wednesday 8.30-9.20, 8-160 Labs: Tuesdays 15.00-17.50, 8-125 Date Lecture Topics Lab **Sept 2025** 3 Introduction 8-12 Electro-Magnetic Spectrum / Image data-display Lab 1: Image display / DNs Unsupervised / supervised classification 15-19 Lab 2: Unsupervised Classification 22-26 Sensors-platforms / Thermal / Microwave Lab 3: Supervised Classification October Sept29-Oct3 Band ratios / Indices-Transforms No Lab: Truth-Reconciliation day 6-10 Feature extraction / Environmental Change Lab 4: Ratios and indices 14-17 Thanksgiving / Mid-Term Exam (15%) Lab 5: Feature extraction 20-24 Glaciers / Change detection Lab 6: Glaciers 27-31 RADAR / LiDAR Lab 7: Change detection November 3 - 7DEMs / Projects Lab 8: DEMs 10-14 'mid-semester break' 17-21 Env. Change demos / High resolution sensors Lab 10: Projects-data 24-28 Future trends / RS Software; course review Lab 11: Data processing Dec 1-5 Exam2 (10%) Project demos (5 minutes each) *Lab 12: project write-up* Dec 9-19 exam period (no final exam in this course) Holidays: September 30 (Tuesday), Oct 13 (Monday), Nov 10-14 (reading week) Syllabus/Lectures slides/labs: gis.unbc.ca Lab assignments: moodle.unbc.ca **Evaluation** 100%

•	Exams: Oct 15, Dec 2	25%
•	Environmental Change exercise (due: Nov 17)	10%
•	Lab exercises 8 x 5%	40%
•	Final project, due Dec 8	25%