

# Department of Geography

## Course Outline

### Geography 322 - Digital Remote Sensing Spring 2015

<b>Instructor</b>	Olaf Niemann ( <a href="mailto:olaf@uvic.ca">olaf@uvic.ca</a> ) Office DTB A246 (office hours by arrangement)
<b>Lecture Hours</b>	Monday, Wednesday @ 1430-1520
<b>Lecture Location</b>	MAC D283
<b>Course Objectives</b>	<p>The objective of this course will be to introduce you to the idea of collecting, processing and using complimentary multisource airborne remotely sensed data.</p> <p>We will explore airborne LiDAR and hyperspectral data in the evaluation of natural environments. The lectures will introduce to the potential of these data and a specific processing and analysis philosophy, While the lab assignment will let you process and analyze these data.</p> <p>This course is unique in that we will have access to a very high resolution instrument package that collects concurrent LiDAR and hyperspectral data (the only one of its kind operating in Canada and one of only 2 in North America). This platform is currently used in the collection of data for number of organizations in North America.</p>
<b>Textbook:</b>	There will no be prescribed textbook for this course. We will use instead as a guide a report titled: <i>Evaluation of Emerging Remote Sensing Technologies for the Assessment of Forest Resources</i> . This report is available to you on the Geog 322 website.

Other lecture, reference, and supporting material will be placed on the course website throughout the term. Access to this website is:

[www.geog.uvic.ca/rs322](http://www.geog.uvic.ca/rs322)

login: geog322

pw: fusion

**Labs/Lab Assignments:**

All labs will be held in the Geomatics labs DTB A251/253. All assignments will be due at the time stipulated on the lab assignment handout. Penalties for late assignments are significant: **10% for the first 24 hour period day followed by 25% every 24 hour period after (no partial penalties).**

**Grading:** The grade breakdown for the course is as follows:

Activity	Grade Distribution
Midterms 1 and 2	2 x 15% = 30%
Assignment 1	1 x 10% = 10%
Project work plans (2)	2 x 5% = 10%
Project write-ups (2)	2 x 15% = 30%
Project oral presentations (2)	2 x 10% = 20%

The grade breakdown follows the university convention:

F	D	C	C+	B-	B	B+	A-	A	A+
< 50%	50-59%	60-64%	65-69%	70-72%	73-76%	77-79%	80-84%	85-89%	90-100%

**Lab access:** The lab facilities are open daily from 0830 through 1630 hours.

### **Course Experience Survey (CES)**

I value your feedback on this course. Towards the end of term, as in all other courses at UVic, you will have the opportunity to complete an anonymous survey regarding your learning experience (CES). The survey is vital to providing feedback to me regarding the course and my teaching, as well as to help the department improve the overall program for students in the future. The survey is accessed via MyPage and can be done on your laptop, tablet, or mobile device. I will remind you and provide you with more detailed information nearer the time but please be thinking about this important activity during the course.

*The University of Victoria is committed to promoting, providing and protecting a positive and safe learning and working environment for all its members.*