

Geog 422 – Advanced Topics in Remote Sensing
Spring 2016
CRN 21755

Instructor	Dr. Eduardo Loos ediloos@uvic.ca
Lecture Hours	Wednesday 18:30 – 20:20 Cornett Building B145
Office Hours	Wednesday 20:30 – 21:30 David Turpin Building B320
Lab Section Hours and Teaching Assistant (you MUST be registered in a Lab Section)	B01 - 21756 - Wednesday 12:30 – 15.20 – Georgia Clyde David Turpin Building A253

Course Objectives This course will focus on scientific literature, with emphasis on reviewing recent research in remote sensing. Our weekly meetings will consist of a lecture on scientific topics, student presentations of assigned publications, and a group discussion of the topic presented.

Weekly readings will be made available on CourSpaces for download. Each student is expected to read all assigned papers and to criticize their contents.

Tasks

- Research assigned topic
- Provide three papers for class discussion
- Oral presentation of assigned topic and lead class discussion
- Write a critique of weekly assigned papers
- Final Project (solo or in a group)

Learning Outcomes

- Ability to analyze scientific publications
- Ability to discuss scientific research
- Ability to evaluate scientific output
- Present scientific topics for class evaluation

Late Assignment Policy Paper critiques/presentations are due at the beginning of the lecture and they must be submitted electronically via Moodle. Penalty for assignments handed in late is **100%** of the value of the assignment. **All assignments must be submitted to be allowed to sit the final examination. Failure to submit an assignment will result in a grade of incomplete.** Exceptions will only be granted for medical reasons (requiring a written report from a medical practitioner stating your inability to attend class) or extreme personal crises. Only the course instructor can grant exceptions.

Course Evaluations

Component A		Component B	
Final Exam	15%	Paper Critiques	15%
Project Report	35%	Presentation	25%
		Discussions	10%

To obtain a passing grade in the course (at least a “D”), students are required to pass both components of the course.

Grading Scale

A+	A	A-	B+	B	B-	C+	C	D	F
90-100%	85-89%	80-84%	77-79%	73-76%	70-72%	65-69%	60-64%	50-54%	49% or less

Grades	Description as per 2010-2011 calendar, p. 38
A+ A A-	Exceptional, outstanding and excellent performance. Normally achieved by a minority of students. These grades indicate a student who is self-initiating, exceeds expectation and has an insightful grasp of the subject matter.
B+ B B-	Very good, good and solid performance. Normally achieved by the largest number of students. These grades indicate a good grasp of the subject matter or excellent grasp in one area balanced with satisfactory grasp in the other area.
C+ C	Satisfactory, or minimally satisfactory. These grades indicate a satisfactory performance and knowledge of the subject matter.
D	Marginal Performance. A student receiving this grade demonstrated a superficial grasp of the subject matter.
F	Unsatisfactory performance. Wrote final examination and completed course requirements. (Failing grade)
N	Did not write final examination or complete course requirements by the end of the term. (Failing grade)

Readings and Course Help

Lab Logon Username: your UVic Netlink-ID
Password: your student number

Digital lectures Lecture presentations can be downloaded from UVic’s CourseSpaces website at <http://coursespaces.uvic.ca>.

Username: your UVic Netlink-ID
Password: your UVic Netlink-ID password

These files are intended as a supplement to the lectures. They are not intended to replace the lectures, although most of the material covered in the lectures is contained in the notes.

Lab Access The Geomatics Teaching Laboratory (Social Sciences & Math A251/A253) is open daily from 8.30 am to 4.30 pm. Access to the Laboratory is restricted after 4.30 pm for security purposes. You are encouraged to contact the lab manager, Rick Sykes, for after-hours access.

Academic Standards Academic integrity requires commitment to the values of honesty, trust, fairness, respect, and responsibility. Plagiarism will be dealt with in accordance with university policy. Please review University Calendar for details. Be sure to reference all material you use. If you have any questions, please contact me. I reserve the right to use plagiarism detection software or other platforms to assess the integrity of student work.

Students with a Disability If you have any type of disability, there are support systems, resources, and accommodation actions available to you. If you wish to access any of these supports, resources or accommodations, I encourage you to contact the Resource Centre for Students with a Disability (**RCS**D) (<http://rcsd.uvic.ca/>) and I would be more than happy to work with you to ensure your success in this course.

Please note: **You are under no obligation to disclose your disability.**

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.

- Notes**
1. You are expected to be proficient in remote sensing software taught in **Geog 228**, **Geog 319**, and **Geog 322**. Therefore, for your final project, you are expected to use any remote sensing (and/or GIS) software and spatial datasets that you feel comfortable with.
 2. It is your responsibility to come to class with an idea of the lecture's subject. It is imperative that you read the suggested papers for that week.
 3. Final Exam date will be posted on the UVic website and it is your responsibility to make sure you check it.
 4. I reserve the right to make changes to the schedule.
 5. The best way to reach me is to come see me during office hours. Emails will only be answered from **Monday to Friday**. Do not expect immediate e-mail replies, so **plan ahead**.
 - 6. If you have ANY concerns related to lectures, labs, and/or exams, please come see me as soon as possible.**

**Other
Contacts**

Geography web site: <http://www.uvic.ca/socialsciences/geography/index.php>.
Undergraduate Advisor: Dr. Phil Wakefield (philw@geog.uvic.ca).

Tentative Lecture Schedule

Week	Date	Lecture
1	06 Jan	Introduction Remote Sensing Review
2	13 Jan	Particulate Matter
3	20 Jan	Pigments
4	27 Jan	CDOM
5	03 Feb	Algorithms
6	10 Feb	Reading Break
7	17 Feb	Proposal Presentations
8	24 Feb	Sensors and Future Missions
9	02 Mar	Discussions
10	09 Mar	Discussions
11	16 Mar	Discussions
12	23 Mar	Discussions
13	30 Mar	Project Presentations

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AND PROTECTING A POSITIVE AND SAFE LEARNING AND WORKING
ENVIRONMENT FOR ALL OF ITS MEMBERS.**