



Faculty of Social Sciences  
Department of Geography

University  
of Victoria

**Geography 228 A01  
INTRODUCTION TO REMOTE SENSING  
FALL 2017**

**INSTRUCTOR:** Dr. Randy Scharien  
**OFFICE:** David Turpin Building B122  
**OFFICE HOURS:** Wednesday 12:20-14:20 or by appointment  
**E-MAIL:** [randy@uvic.ca](mailto:randy@uvic.ca)

**LECTURE TIMES:** Monday and Wednesday 14:30-15:20 DTB A102

**SENIOR LAB INSTRUCTOR:**

Terri Evans ([tevens@uvic.ca](mailto:tevens@uvic.ca))

**TEACHING ASSISTANT:** Aikaterini Tavri ([atavri@uvic.ca](mailto:atavri@uvic.ca))

**LAB SECTION/HOURS:** B01 Monday 08:30 – 10:20  
B02 Tuesday 12:30 – 14:20  
B03 Wednesday 12:30 – 14:20  
B04 Thursday 14:30 – 16:20  
David Turpin Building A253

**COURSE OBJECTIVE:** To provide students with a conceptual and practical introduction to Remote Sensing (RS).

**COURSE TEXTS (OPTIONAL):**

Introductory Digital Image Processing. A Remote Sensing Perspective. 4<sup>th</sup> Edition. John R. Jensen.

Computer Processing of Remotely-Sensed Images. 4<sup>th</sup> Edition. Paul M. Mather (available online: <http://voyager.library.uvic.ca/vwebv/holdingsInfo?bibId=3122540>)

**COURSESPACES** Access CourseSpaces (<http://CourseSpaces.uvic.ca>) for announcements, instructor notes, your grades, and additional information (e.g. discussion topics).

### LECTURE PRESENTATIONS:

Lecture presentations can be downloaded from CourseSpaces. In most cases the presentation slides will be made available in advance of the lectures.

**LAB WEBSITE:** labs.geog.uvic.ca/geog228  
Username: geog228  
Password: meris

**LAB COMPUTERS:** Username: your UVic Netlink-ID  
Password: your student number

**LAB ACCESS** The Geomatics Teaching Laboratory (DTB 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.

### GRADING SCHEME

Component A: Mid-term Exam	25%
Component A: Final Exam	35%
Component B: Lab (Assignments and Exam – see Lab Website)	40%

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

### LATE ASSIGNMENT POLICY

Lab assignments are due at the beginning of the following week’s lab. Penalty for assignments handed in late is **20% per day**. **All lab assignments must be submitted to be allowed to sit the final examination. Failure to submit a lab assignment will result in a failing grade of incomplete (N).** 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. Please do not try to negotiate exceptions with the TA.

## GRADING SYSTEM

As per the Academic Calendar:

Grade	Grade point value	Grade scale	Description
A+ A A-	9 8 7	90-100% 85-89% 80-84%	<b>Exceptional, outstanding and excellent</b> 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-	6 5 4	77-79% 73-76% 70-72%	<b>Very good, good and solid</b> 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	3 2	65-69% 60-64%	<b>Satisfactory, or minimally satisfactory.</b> These grades indicate a satisfactory performance and knowledge of the subject matter.
D	1	50-59%	<b>Marginal</b> Performance. A student receiving this grade demonstrated a superficial grasp of the subject matter.
F	0	0-49%	<b>Unsatisfactory</b> performance. Wrote final examination and completed course requirements; no supplemental.
N	0	0-49%	<b>Did not write examination or complete course requirements by the end of term or session; no supplemental.</b>

## ACCESSIBILITY

Students with diverse learning styles and needs are welcome in this course. In particular, if you have a documented disability/health consideration that may require accommodations, please feel free to approach me and/or the Centre for Accessible Learning as soon as possible. The CAL staff are available by appointment to assess specific needs, provide referrals and arrange appropriate accommodations <http://www.uvic.ca/services/cal/>. The sooner you let us know your needs the quicker we can assist you in achieving your learning goals in this course.

## POSITIVITY AND SAFETY

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

## 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.

## ACADEMIC INTEGRITY

Academic integrity requires commitment to the values of honesty, trust, fairness, respect and responsibility. It is expected that students, faculty members and staff at the University of Victoria, as members of an intellectual community, will adhere to these ethical values in all activities related to learning, teaching, research and service. Any action that contravenes this standard, including misrepresentation, falsification or deception, undermines the intention and worth of scholarly work and violates the fundamental academic rights of members of our community. Students are advised to consult the university's Policy on Academic Integrity in the University Calendar. The instructor reserves the right to use plagiarism detection software programs to detect plagiarism in term papers.

*Plagiarism* will be dealt with in accordance with university policy. Please review the University Calendar for details. Be sure to reference all material you use. If you have any questions, please contact me.

The use of an editor, whether paid or unpaid, is prohibited unless the instructor grants explicit written authorization. The instructor should specify the extent of editing that is being authorized.

## WEEKLY CALENDAR

WEEK	DATE	Lecture	Lab
1	06 Sep – 08 Sep	Introduction. Aerial Photos.	No labs.
2	11 Sep – 15 Sep	Aerial Photos.	Lab 1 – Digital Aerial Photo Interpretation.
3	18 Sep – 22 Sep	Remote Sensing Process (Image properties).	Lab 1 continued.
4	25 Sep – 29 Sep	Remote Sensing Process (Radiation).	Lab 2 – Software and Imagery.
5	02 Oct – 06 Oct	Radiation and Radiometric Normalization.	Lab 3 – Radiometric/Atmospheric Correction
6	09 Oct – 13 Oct	Thanksgiving Day (09 Oct.). Radiation and Radiometric Normalization (cont.).	No labs this week.
7	16 Oct – 20 Oct	Geometric Correction. <b>Mid Term Exam (18 Oct.)</b>	Lab 4 – Geometric Correction.
8	23 Oct – 27 Oct	Image Enhancement.	Lab 5 – Image Enhancements.
9	30 Oct – 03 Nov	Image Enhancement (cont.). Image Classification	Lab 6 – Image Classification.
10	06 Nov – 10 Nov	Image Classification (cont.).	Lab 6 – Image Classification (cont.).
11	13 Nov – 17 Nov	Reading Week – No Lectures.	Reading Week – No Labs.
12	20 Nov – 24 Nov	Accuracy Assessment. Guest (TBD).	Lab Exam Information.
13	27 Nov – 01 Dec	Future of Remote Sensing. Course Review.	Lab Exam.

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