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**COURSE OUTLINE**  
**Digital Remote Sensing**

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**Office Hours: Thursdays 11:00 12:00**

**Office Location: DTB B122**

**Contact: [randy@uvic.ca](mailto:randy@uvic.ca)**

**COURSE DESCRIPTION**

The objective of this course will be to introduce you to the idea of collecting, processing and using passive microwave, active microwave (RADAR), and LiDAR

A resource book which does an excellent job of providing a rigorous treatment of microwave imaging but in a manner suited to earth scientists rather than practitioners of theoretical electromagnetism. Focus is on radar but the book includes a chapter on passive microwave remote sensing.

3. Woodhouse, I.H. (2006). Introduction to Microwave Remote Sensing. Taylor and Francis, Boca Raton, Florida.

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## GEOGRAPHY DEPARTMENT INFO

- Geography Department website: <http://geog.uvic.ca>
- Undergraduate Advisor: Dr. Phil Wakefield – [geogadvisor@uvic.ca](mailto:geogadvisor@uvic.ca)

## COURSESPACES

Lectures materials, assigned readings, and general course communications will be via CourseSpaces. You are required to come prepared for each lecture. This means you should have read and considered the assigned readings.

## LABS

There are 4 lab assignments. The labs are an essential part of the course and you are expected to have basic computer skills such as file maintenance, word processing, and conducting spreadsheet operations (e.g. Microsoft Excel). Attendance is required. All labs will be held in the Geomatics Lab A251/253. Each lab will explore unique aspects of microwave remote sensing from systems and applications perspectives. Analysis and presentation of data, as well as preparation of synthesis reports, are valuable skills that will be developed as part of lab assignments.

Lab Website

<http://labs.geog.uvic.ca/geog322/>

user: geog322

pw: fusion

Students need a high speed USB3 memory stick 32GB for 3rd and 4th year remote sensing. Rick Sykes, computing support in Geography, has a limited number for purchase (\$20 cash only, no change given). Geomatics students will be allowed one from Rick at this price over the course of their undergrad. They are welcome to pick up one elsewhere, but do note that a regular USB2 is not adequate – it must be a high speed USB3 memory stick.

Specific announcements regarding lab due dates and times will be made by the lab instructor Terri Evans.

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## POLICY ON LATE ASSIGNMENTS will care

If you have any questions or doubts, talk to me, your course instructor. For more information, see <http://www.uvic.ca/learningandteaching/students/resources/expectations/>. The instructor reserves the right to use plagiarism detection software programs to detect plagiarism in written assignments.

## **ACCESSIBILITY**

Students with diverse learning styles and needs are

