

Geography 422
Fall 2016
Advanced Seminar in Remote Sensing
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DTB A246

Course Design:

The course will be a project - based course with the expectation that you execute a research project of your choosing, related for the remote sensing of various environments. The course is seminar-based and so much of the interaction will be student lead. We will have a number of presentations to broaden your outlook on the application of remote sensing data to addressing a variety of issues. You will be given the opportunity to develop a project that suits your interests, within the limits of available data. The progress of the projects will be monitored through a series of deliverables (see below). The data that you will have access to are, for the most part, new (that is you will be the first to work on them) and are collected from airborne multi sensor campaigns. Typically we will have LiDAR, hyperspectral data and orthophotography.

Times: **Lecture** Tuesdays and Wednesdays 1230 -1320; **Lab**: Thursday 0830-1130
Location: **Lectures**: Clearihue C113; **Lab**: Turpin A253

Evaluation:

Deliverables	Weighting	Date
Project definition	5% (O&W)	September 15
Annotated bibliography	10% (W)	September 15
Methodological overview	20% (O&W)	October 6
Progress update	5% (O&W)	October 20
Presentation of final project	25% (O)	November 24
Final report	35% (W)	December 2

O=oral;

Tentative schedule (subject to change):

Week of September 5 Course Introduction

Week of September 12 Technological Evolution of Technologies related to Remote Sensing / Multisensor RS

Week of September 19 Class Presentations: Project Definitions

Week of September 26 No lecture (tentative)

Week of October 3 Class Presentations: Methodological overview

Week of October 10. Remote Sensing: Species Identification - Vegetation Health

Week of October 17 Remote sensing for Forest Assessment

Week of October 24 Class Presentations: Progress report/update

Week of October 31 Multisensor RS 31