

## REMOTE SENSING APPLICATIONS (SUR 5385)

**Instructor:** Scot E. Smith, Professor, Geomatics Program, School of Forest Resources and Conservation

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**Text:** None. Reading assignments will be made.

**Topics:** Remote sensing systems, ground truthing procedures, air photo interpretation, satellite image processing and classification, radar imagery, applications of remotely sensed imagery.

**Goal:** The goal of this course is to provide students with an understanding of the applications of remote sensing and to provide an understanding of the state-of-the-art of remote sensing as practiced today.

**Course Objective:** Provide an understanding of the applications of remote sensing

### TOPICS

- **Forestry**
- **Terrain Analysis**
- **Wildlife**
- **Geomatics**
- **Land Use/Land Cover determination**
- **Non-destructive testing using thermal Infrared**
- **Non-destructive testing using ground penetrating radar**
- **Environmental Assessment**

**Case Studies:** Detection of the Burmese Python in the Everglades National Park, Rapid hurricane damage assessment, Post forest fire assessment, Wading bird inventory using a UAV, Land use/land cove change assessment using the Leica ADS 40, ordinary high water line determination.

**Course Grading Policy:** The course grades will be determined by class participation and by a presentation to be made by each student.