Engs 683: Land Use and Land Cover Applications

School of Engineering

The purpose of this course is to introduce to students the fundamental considerations in creating, updating, assessing, and using land cover and land use information that has been derived from remotely sensed data. Each unit addresses multiple concepts that allow students to answer important questions concerning land cover and land use applications. Students begin with an introduction to the definitions, delineations, and brief histories of land use and land cover information. Next, students focus on data exploration and image classification, including the creation process. The method of detecting change in land use and land cover and the associated updates are outlined and reviewed. Accuracy and assessment of land use and land cover information is also examined, including a discussion on analysis systems. The course also addressed the use of information for predictions of the impact of future decisions and prescriptions for best land management practices and goals. Concepts are illustrated with detailed real world case studies and student exercises.

3 Credits

Prerequisites

- Student must be admitted to Certificate in Geographic Info Systems program.

Instruction Type(s)

- Indiv Based: Individual Based for Engs 683
- Indiv Based: Online Program for Engs 683

Subject Areas

- Engineering, Other