



BE 485/585

Remote Sensing Data and Methods

MWF: 10:00 –10:50AM (Shantz 338)

Remote Sensing Data and Methods is a course designed to provide an in depth overview of practical topics in land remote sensing with big spatial data, data discovery, provenance, data characterization, algorithms, **advanced analysis and visualization techniques with python**, and much more. Students will learn how to search, discover and acquire a variety of global to regional remote sensing data records and time series, learn about the various sensors/platforms collecting these data, learn how to interpret and analyze these **data using Python** and other techniques.

The course is aimed at all students of environmental sciences, natural resources & management, and engineering students interested in big spatial data and data analytic. The course aims at connecting the theoretical aspects of remote sensing and current Earth science data algorithms and analytics with focus on practical **Python programming**.

Upon completing this course, the student will become well versed in a variety of remote sensing big data, time series analysis methods, the underlying science algorithms, and proficient with data analysis.

Any prior course in Remote Sensing, Image Processing, Geographic Information Systems, Geospatial Analysis, Geostatistics, or general statistics will be helpful.



Instructor and Contact Information

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