

Schedule

Date	Lecture	Guest Lecturer	Readings	Lab
2-Feb	Intro to Remote Sensing and Satellite Image Properties		Ch 1 & 2	1- Introduction to the YCEO Lab and Remote Sensing Software
4-Feb				
9-Feb	Physics of Radiation		Ch 6-10	2- Experiments with a Portable Spectrometer
11-Feb	Satellites and Sensors			
16-Feb	Enhancement, Ratioing, Filtering		Ch 4-5	Problem Set #1 Due
18-Feb	Showcase: Sentinel 2			3- Image Enhancement and Manipulation
23-Feb	Map Projections, Data Formats, Georeferencing		Ch 11	4- Image Rectification
25-Feb	Showcase: Spy satellites			
2-Mar	Classification		Ch 12-14	5- Introduction to Image Classification
4-Mar	Showcase: Planet			
9-Mar	<i>BREAK DAY</i>			6- DEM, Raster vs. Vector, Cartography, Project Data Concerns Problem Set #2 Due
11-Mar	Non-image Data	Schultz		
15-Mar	Mid-Term Exam Review Session 7:00 PM			No lab
16-Mar	Mid-Term Exam			
18-Mar	Forest Harvesting	Ashton	Ch 16, 17 & 20	
23-Mar	Change Detection Showcase: ASTER/Proba-v			7- Change Detection and Forest Harvesting Project Prospectus Due/ Roundtable
25-Mar	Atmospheres and Cloud Properties Showcase: SMAP		Ch 19	
30-Mar	Atmospheres and Cloud Properties			8- Atmospheres and Cloud Property Analysis
1-Apr	Climate, Seasons, and Vegetation Showcase: Nightlights	Smith	Ch 17	
6-Apr	Climate, Seasons, and Vegetation Showcase: Sentinel 5-P	Smith		
8-Apr	<i>BREAK DAY</i>			9- Monitoring Seasonal Cycle of Vegetation Growth
13-Apr	Remote Sensing Products Showcase: GOES			
15-Apr	Atmospheric Compositions		Handout	10 - NO2 analysis of China 2007 - 2008
20-Apr	GPS and Field Survey	Schultz	Ch 13	
22-Apr	Biogeography	Jetz		Project Roundtable Discussions
27-Apr	Remote Sensing with Drones			Work on Term Project
29-Apr	Oceans	Smith		
4-May	Remote Sensing with Planets	Lora		
6-May	Google Earth Engine	Chakraborty		Work on Term Project
11-May	Reading Period, No Class			
13-May	Project Presentations (Students are required to attend a minimum of 3 hours)			9:00 AM to 3:00 PM
15-May	Project Report due by midnight			