

Texts: [J. R. Jensen, Remote Sensing of the Environment: An Earth Resource Perspective, 2nd ed., Prentice Hall, 2007.](#)

(Available New, Used or For Rent)

[National Research Council, Earth Observations from Space: The First 50 Years of Scientific Achievements, 2007.](#)

(PDF on Gauchospace)

Grading: Lab/Homework 40%
Project 30%
Final Exam 30%

Date	Lecture Topic	Reading/ Jensen	Reading/ NRC	Reading/Web	
Monday, April 1, 2013	Introduction	chapters 1-3		NASA Earth Science	
Part 1, Remote sensing technologies					
Wednesday, April 3, 2013	Electromagnetic radiation: Planck function etc.				
Monday, April 8, 2013	Multispectral remote sensing, with focus on Landsat and MODIS	chapter 7	chapter 2	MODIS	MODIS data
Wednesday, April 10, 2013				ASTER	Landsat
Monday, April 15, 2013					
Wednesday, April 17, 2013	Thermal infrared remote sensing	chapter 8		AIRS	
Monday, April 22, 2013					
Wednesday, April 24, 2013	Hyperspectral remote sensing			AVIRIS	
Monday, April 29, 2013	Microwave remote sensing, passive and active	chapter 9		JPL radar	TRMM
Wednesday, May 1, 2013				AMSR	
Jeff gone					
Part 2, In-depth examples (I can be flexible about specific topics)					
Monday, May 13, 2013	Altimetry, photogrammetry, interferometry & gravity	chapter 6	chapter 11	SRTM	ICESat
Wednesday, May 15, 2013				GRACE	
Monday, May 20, 2013	Vegetation, properties and processes	chapter 10	chapters 9-10	MODIS vegetation	
Wednesday, May 22, 2013				MISR	
Monday, May 27, 2013	Water, snow and ice	chapter 11	chapters 6-7	Sea ice	
Wednesday, May 29, 2013				Snow	
Monday, June 3, 2013	Student presentations				
Wednesday, June 5, 2013					

