

# Syllabus: ASTR250, FALL 2014

## Week 1: Introduction/Unit Overview/Critical Historical Observations

Aug. 25: Introduction/Critical Historical Observations/Orbital Dynamics Ch. 1-2

Aug. 27: Critical Historical Observations (cont.) Ch. 1-2

Aug. 29: Newton's and Kepler's Laws Ch. 3

## Week 2: Orbital Dynamics

Sep. 1: NO CLASS

Sep. 3: Kepler's Laws (cont.)/Earth-Moon Ch. 3 & 4

Sep. 5: Earth-Moon System Ch. 4

## Week 3: Orbital Dynamics and Radiation

Sep. 8: Interaction of Radiation and Matter Ch. 5

Sep. 10: Interaction of Radiation and Matter Ch. 5

Sep. 12: Jupiter Moons Project

## Week 4: Radiation

Sep. 15: Interaction of Radiation and Matter Ch. 5

Sep. 17: Interaction of Radiation and Matter Ch. 5

Sep. 19: Properties of Stars Ch. 13

## Week 5: Stars

Sep. 22: Midterm 1

Sep. 24: Properties of Stars Ch. 13

Sep. 26: Properties of Stars Ch. 13

## Week 6: Stellar Atmospheres & Interiors

Sep. 29: Stellar Atmospheres Ch. 14

Oct. 1: Solar Project

Oct. 3: Stellar Interiors	Ch. 15
<b>Week 7 Stars &amp; Interstellar Medium</b>	
Oct. 6: Stellar Interiors	Ch. 15
Oct. 8: Interstellar Medium	Ch. 16
Oct. 10: Interstellar Medium	Ch. 16
<b>Week 8: Stellar Evolution</b>	
Oct. 13: Formation and Evolution of Stars	Ch. 17
Oct. 15: Formation and Evolution of Stars	Ch. 17
Oct. 17: Stellar Remnants	Ch. 18
<b>Week 9: Stellar Remnants &amp; Our Galaxy</b>	
Oct. 20:	<b>Midterm 2</b>
Oct. 22: Stellar Remnants	Ch. 18
Oct. 24: Our Galaxy	Ch. 19
<b>Week 10: Galaxies</b>	
Oct. 27: Our Galaxy	Ch. 19
Oct. 29: Our Galaxy	Ch. 19
Oct. 31: Galaxies	Ch. 20
<b>Week 11: Galaxies</b>	
Nov. 3: Galaxies	Ch. 20
Nov. 5: AGN/Quasars	Ch. 21
Nov. 7: Other Oddities	
<b>Week 12: Large Scale Structure</b>	
Nov. 10: The Local Universe and Distance Scale	Ch. 22
Nov. 12: Clusters, Groups, Voids and Interacting Galaxies	Ch. 22
Nov. 14:	<b>Midterm 3</b>
<b>Week 13: Dark Matter</b>	
Nov. 17: Dark Matter	
Nov. 19: Dark Matter	
Nov. 21: Hubble Law Project	
<b>Week 14: Cosmology</b>	
Nov. 24: Cosmology	Ch. 23
Nov. 26: Cosmology	Ch. 23

Nov. 28: **NO CLASS**

**Week 15: Cosmology**

Dec. 1: History of a Smooth Universe Ch. 24

Dec. 3: History of a Lumpy Universe

Dec. 5: The Intergalactic Medium

**Week 16: High-z**

Dec. 8: High Redshift Galaxies

Dec. 10: New Horizons

**Dec 15: Final Exam  
(10:30-12:30 PM)**

