Syllabus: ASTR250, FALL 2014

Week 1: Introduction/Unit
Overview/Critical Historical
Observations
Aug. 25: Introduction/Critical
Historical
Observations/Orbital
Dynamics
Aug. 27: Critical Historical
Observations (cont.)
Aug. 29: Newton's and
Kepler's Laws
Ch. 1-2
Ch. 1-2
Ch. 3

Week 2: Orbital Dynamics
Sep. 1: NO CLASS
Sep. 3: Kepler's Laws
(cont.)/Earth-Moon
Sep. 5: Earth-Moon System
Ch. 3 & 4
Ch. 4

Week 3: Orbital Dynamics
and Radiation
Sep. 8: Interaction of
Radiation and Matter
Sep. 10: Interaction of
Radiation and Matter
Sep. 12: Jupiter Moons Project
Ch. 5
Ch. 5

Week 4: Radiation
Sep. 15: Interaction of
Radiation and Matter
Sep. 17: Interaction of
Radiation and Matter
Sep. 19: Properties of Stars
Ch. 5
Ch. 5
Ch. 13

Week 5: Stars
Sep. 22: Midterm 1
Sep. 24: Properties of Stars
Sep. 26: Properties of Stars
Ch. 13
Ch. 13

Week 6: Stellar Atmospheres
& Interiors
Sep. 29: Stellar Atmospheres
Oct. 1: Solar Project
Ch. 14
Oct. 3: Stellar Interiors  Ch. 15

**Week 7: Stars & Interstellar Medium**
Oct. 6: Stellar Interiors  Ch. 15
Oct. 8: Interstellar Medium  Ch. 16
Oct. 10: Interstellar Medium  Ch. 16

**Week 8: Stellar Evolution**
Oct. 13: Formation and Evolution of Stars  Ch. 17
Oct. 15: Formation and Evolution of Stars  Ch. 17
Oct. 17: Stellar Remnants  Ch. 18

**Week 9: Stellar Remnants & Our Galaxy**
Oct. 20:  Midterm 2
Oct. 22: Stellar Remnants  Ch. 18
Oct. 24: Our Galaxy  Ch. 19

**Week 10: Galaxies**
Oct. 27: Our Galaxy  Ch. 19
Oct. 29: Our Galaxy  Ch. 19
Oct. 31: Galaxies  Ch. 20

**Week 11: Galaxies**
Nov. 3: Galaxies  Ch. 20
Nov. 5: AGN/Quasars  Ch. 21
Nov. 7: Other Oddities

**Week 12: Large Scale Structure**
Nov. 10: The Local Universe and Distance Scale  Ch. 22
Nov. 12: Clusters, Groups, Voids and Interacting Galaxies  Ch. 22
Nov. 14:  Midterm 3

**Week 13: Dark Matter**
Nov. 17: Dark Matter
Nov. 19: Dark Matter
Nov. 21: Hubble Law Project

**Week 14: Cosmology**
Nov. 24: Cosmology  Ch. 23
Nov. 26: Cosmology  Ch. 23
Nov. 28: NO CLASS

**Week 15: Cosmology**
Dec. 1: History of a Smooth Universe
Dec. 3: History of a Lumpy Universe
Dec. 5: The Intergalactic Medium

Ch. 24

**Week 16: High-z**
Dec. 8: High Redshift Galaxies
Dec. 10: New Horizons

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