

Astronomy 103 Fall 2008 Instructor: Dr. Don Summers 915-7032
 Lewis 101 TTh 1:00-1:50 Office Hours: Lewis 221 TThF 2-3
 Text: Cosmic Perspective, Bennett et al., 5th Edition
 Lab Location: Kennon Observatory
 Section: 1,2 Monday 7-8:50, 9-10:50 George Richardson
 Section: 3,4 Tuesday 7-8:50, 9-10:50 Arunava Roy
<http://www.phy.olemiss.edu/~kakukk/Astro/Lab/Lab.html>

Date	Subjects	Chapter Reading (before class)
26 Aug	Introduction, Cosmic address, light year	1
28 Aug	Stars, Constellations, Long/Lat., Seasons, Precession	2
2 Sep	Lunar phases, eclipses, retrograde motion, parallax	2
4 Sep	Earth Size, Kepler's Laws, Venus' Phases, Jupiter's Moons	3
9 Sep	Time, Calendar, RA, Dec., Star Tracks, Long., Lat.	S1
11 Sep	Energy, Temperature, Matter Phases, atoms, energy levels	4
16 Sep	Motion, orbits, Newton's & Kepler's Laws	4
18 Sep	Gravity, Escape Velocity, Weight and Mass, Tides	4
23 Sep	FIRST HOUR EXAM	
25 Sep	Light waves, spectra, thermal radiation, doppler shift	5
30 Sep	Telescopes: Optical, Radio, and X Ray; Diffraction Limit	6
2 Oct	Solar System Tour and Formation, Radioactive Dating	7,8
7 Oct	Terrestrial Planets, tectonics, volcanoes, magnetism	9
9 Oct	Planet Earth: S-waves, P-waves, Continental Drift	9
14 Oct	Terrestrial Atmospheres, O ₂ , CO ₂ , Ozone	10
16 Oct	Greenhouse effect, Ozone, Escape Velocity	10
21 Oct	SECOND HOUR EXAM	
23 Oct	Solar System Epic Adventure	11
28 Oct	Interiors/Atmospheres: Jupiter, Saturn	11
30 Oct	Interiors/Atmospheres: Uranus, Neptune	11
4 Nov	Rings & Moons: Jupiter, Saturn, Uranus, Neptune	11
6 Nov	Rock and Ice: Asteroids and Comets	12
11 Nov	Pluto and Charon, Kuiper Belt, Meteors, Meteor Showers	12
13 Nov	Planets around stars beyond the sun	13
18 Nov	THIRD HOUR EXAM	
20 Nov	Sunspots, Solar Magnetism, Flares, Energy Transport	14
2 Dec	Why does the sun shine? Nuclear fusion, neutrinos	14
4 Dec	The Voyager Space Flight	
9 Dec	COMPREHENSIVE FINAL EXAM 4:00 pm Tuesday (not earlier)	1-14

Grading Scheme	Lab	25%	You must do at least 75% of the labs to pass.
	Pop Quizzes	15%	It helps to read the chapter before class.
	1st Exam	12%	You will need a scientific pocket calculator.
	2nd Exam	12%	The Texas Instruments TI-30Xa is a good choice.
	3rd Exam	12%	
	FINAL EXAM	24%	Plan on the final exam on 9 Dec, not earlier.

The 1st lab will be on Tuesday night, 2 September.

Come on the night and time that you have signed up for.

Labs are a required part of the course.

Bring a scientific calculator lab. 11 11 22

Adding exponents (11+11=22). 10 x 10 = 10

stars/galaxy x galaxies = stars in the universe

Learning Objectives: To learn how planets, the sun, and other wonders of the solar system work and to find out how astronomers made these discoveries and to do some of the actual experiments.