Astronomy 103 Fall 2007 Instructor: Dr. Don Summers

915-7032

Lewis Hall 101 TTh 1:00-1:50 Text: Cosmic Perspective, Bennett.. 4th Ed

Office: Lewis Hall 221 Lab: Kennon Observatory

Office Hours: TTh 2-3 Sections: 1,2 Monday 7-9, 9-11 Phone: 915-7032 Sections: 3,4 Tuesday 7-9, 9-11

Dat	е	Subjects	Chapter Reading (before
			class)
21	Aug	Introduction, Cosmic address, light year	´ 1
23	Aug	Stars, Constellations, Long/Lat., Seasons, Precession	2
28	Aug	Lunar phases, eclipses, retrograde motion, parallax	2
30	Aug	Earth Size, Kepler's Laws, Venus' Phases, Jupiter's Moons	3
4	Sep	Time, Calendar, RA, Dec., Star Tracks, Long., Lat.	S1
6	Sep	FIRST HOUR EXAM	
11	Sep	Energy, Temperature, Matter Phases, atoms, energy levels	4
13	Sep	Motion, orbits, Newton's & Kepler's Laws	4
18	Sep	Gravity, Escape Velocity, Weight and Mass, Tides	4
20	Sep	Light waves, spectra, thermal radiation, Doppler shift	5
25	Sep	Telescopes: Optical, Radio, and X Ray; Diffraction Limit	6
27	Sep	Solar System Tour and Formation, Radioactive Dating	7,8
2	Oct	Terrestrial Planets, tectonics, volcanoes, magnetism	9
4	Oct	Planet Earth: S-waves, P-waves, Continental Drift	9
9	Oct	SECOND HOUR EXAM	
11	Oct	200 inch Telescope at Mount Palomar	6
16	Oct	Terrestrial Atmospheres	10
18	Oct	Greenhouse effect, Ozone, Escape Velocity	10
23	Oct	Planet Earth: Atmosphere. O2, CO2, Ozone	10
25	Oct	Interiors/Atmospheres: Jupiter, Saturn, Uranus, Neptune	11
30	Oct	The Voyager Space Flight	11
1	Nov	Rings & Moons: Jupiter, Saturn, Uranus, Neptune	11
6	Nov	Rock and Ice: Asteroids and Comets	12
8	Nov	Pluto and Charon, Kuiper Belt, Meteors, Meteor Showers	12
13	Nov	THIRD HOUR EXAM	
15	Nov	•	13
27	Nov	1 / 0 / 1	14
29	Nov	•	14
4	Dec	COMPREHENSIVE FINAL EXAM – 4:00 pm Tuesday (not earlier)	1-14

Grading Lab 25% You must do at least 75% of the labs to pass. Scheme 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 4 Dec, not earlier.

The 1st lab will be on Monday night, 27 August. 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 Adding exponents (11+11=22). $10^{11} \times 10^{11} = 10^{22}$ 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.