

Astronomy 103 Fall 2006
915-7032

Instructor: Dr. Don Summers

Lewis Hall 101 TTh 1:00-1:50

Text: Cosmic Perspective, Bennett.. 4th Ed

Office: Lewis Hall 221

Lab:

Office Hours: TTh 2-3

1,2 Monday 7-9, 9-11

3,4 Tuesday 7-9, 9-11

Date	Subjects	Chapter Reading (before class)
22 Aug	Introduction, Cosmic address, light year	1
24 Aug	Stars, Constellations, Long/Lat., Seasons, Precession	2
29 Aug	Lunar phases, eclipses, retrograde motion, parallax	2
31 Aug	Earth Size, Kepler's Laws, Venus' Phases, Jupiter's Moons	3
5 Sep	Time, Calendar, RA, Dec., Star Tracks, Long., Lat.	S1
7 Sep	FIRST HOUR EXAM	
12 Sep	Energy, Temperature, Matter Phases, atoms, energy levels	4
14 Sep	Motion, orbits, Newton's & Kepler's Laws	4
19 Sep	Gravity, Escape Velocity, Weight and Mass, Tides	4
21 Sep	Light waves, spectra, thermal radiation, doppler shift	5
26 Sep	Telescopes: Optical, Radio, and X Ray; Diffraction Limit	6
28 Sep	Solar System Tour and Formation, Radioactive Dating	7,8
3 Oct	Terrestrial Planets, tectonics, volcanoes, magnetism	9
5 Oct	Planet Earth: S-waves, P-waves, Continental Drift	9
10 Oct	SECOND HOUR EXAM	
12 Oct	200 inch Telescope at Mount Palomar	6
17 Oct	Terrestrial Atmospheres	10
19 Oct	Greenhouse effect, Ozone, Escape Velocity	10
24 Oct	Planet Earth: Atmosphere. O ₂ , CO ₂ , Ozone	10
26 Oct	The Voyager Space Flight	11
31 Oct	Interiors/Atmospheres: Jupiter, Saturn, Uranus, Neptune	11
2 Nov	Rings & Moons: Jupiter, Saturn, Uranus, Neptune	11
7 Nov	Planets around stars beyond the sun	13
9 Nov	THIRD HOUR EXAM	
14 Nov	Rock and Ice: Asteroids and Comets	12
16 Nov	Pluto and Charon, Kuiper Belt, Meteors, Meteor Showers	12
28 Nov	Sunspots, Solar Magnetism, Flares, Energy Transport	14
30 Nov	Why does the sun shine? Nuclear fusion, neutrinos	14
5 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 5 Dec, not earlier.

The 1st lab will be on Monday night, 28 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. 11 11 22

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

stars/galaxy x galaxies = stars in the universe