

# ASTRONOMY 103 FALL 2005

**Monday and Wednesday from 8:00 - 8:50**

**Instructors:** Dr. Henry Bass and Dr. Luca Bombelli  
**Office:** Room 2000 National Center for Physical Acoustics  
Room 105 Lewis Hall  
**Office Hours:** Tues - 9-9:50 call ahead  
**Phone:** 915-5840  
**Text:** J. Bennett et al, *The Cosmic Perspective* Addison Wesley  
**Lab:** Kennon Observatory  
**Lab Instructor:** \_\_\_\_\_

Date	Subject
22 Aug	Introduction to the course; The night sky
24 Aug	The Celestial Sphere and apparent motions - Chaps 1 & 2 (Professor Bombelli)
29 Aug	August sky; Motion of the Earth and Timekeeping – Chap 2
31 Aug	Motion of the Moon, phases and eclipses – Chap 3 & start of Chap 4
<b>05 Sep</b>	<b>Labor Day Holiday</b>
07 Sep	Ancient astronomy; Geocentric models – Chap 4 & start of Chap 5 (Professor Bombelli)
12 Sep	News: Renaissance astronomy and Kepler's laws – Chap 6
14 Sep	Newton's laws of motion and gravity – Chap 6
19 Sep	Matter: Constitution and forces – Chap 5
<b>21 Sep</b>	<b>Test 1</b>
26 Sep	Energy, temperature and heat – Chaps 5 & 7
28 Sep	Light as a wave: The electromagnetic spectrum – Chap 7
03 Oct	Types of spectra and temperature effects – Chaps 7 & 8
05 Oct	Optical telescopes; Properties and types – Chap S2
10 Oct	Mid Term Grades
12 Oct	New technologies and other kinds of telescopes – Chap S2
17 Oct Overview of the Sun and the Solar System – Chap 8	
19 Oct	News: Mercury – Chap 9
24 Oct	Venus – Chap 9
<b>26 Oct</b>	<b>Test 2</b>
31 Oct	The Moon – Chap 9
2 Nov	The Earth – Chap 9 & 13
7 Nov	Mars – Chap 9
9 Nov	Asteroids and meteoroids – Chap 12; Sections 12.2 to 12.3
14 Nov	Jupiter and Saturn – Chap 11
<b>16 Nov</b> <b>Test 3</b>	
<b>21-25 Nov</b>	<b>Fall Break/ Thanksgiving Holidays</b>
28 Nov Uranus, Neptune and Pluto – Chap 11 & 12 (Professor Bombelli)	
30 Nov	Kuiper Belt Objects/Comets/ Solar System Formation – Chap 12 (Professor Bombelli)
<b>6 Dec</b>	<b>Final at noon</b>

<b>Grading Scheme:</b>	Lab	35%	You must do at least 70% of labs to pass
	Pop Quizzes	15%	
	1st Exam	10%	
	2nd Exam	10%	
	3rd Exam	10%	
	Final Exam	20%	

**Laboratory:** The first lab will be on Monday night, the 22nd of August. Please come on the night you have signed up for. Labs are a required part of the course.