

ASTRONOMY 103 FALL 2006

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 |
|------------------|---|
| 21 Aug | Introduction to the course; The night sky |
| 23 Aug | The Celestial Sphere and apparent motions - Chaps 1 & 2 (Professor Bombelli) |
| 28 Aug | August sky; Motion of the Earth and Timekeeping – Chap 2 |
| 30 Aug | Motion of the Moon, phases and eclipses – Chap 3 & start of Chap 4 |
| 04 Sep | Labor Day Holiday |
| 06 Sep | Ancient astronomy; Geocentric models – Chap 4 & start of Chap 5 |
| 11 Sep | News: Renaissance astronomy and Kepler's laws – Chap 6 |
| 13 Sep | Newton's laws of motion and gravity – Chap 6 |
| 18 Sep | Matter: Constitution and forces – Chap 5 |
| 20 Sep | Test 1 |
| 25 Sep | Energy, temperature and heat – Chaps 5 & 7 (Professor Bombelli) |
| 27 Sep | Light as a wave: The electromagnetic spectrum – Chap 7 (Professor Bombelli) |
| 02 Oct | Types of spectra and temperature effects – Chaps 7 & 8 |
| 04 Oct | Optical telescopes; Properties and types – Chap S2 |
| 06 Oct | Mid Term Grades |
| 09 Oct | New technologies and other kinds of telescopes – Chap S2 (Professor Bombelli) |
| 11 Oct | Test 2 |
| 16 Oct | Overview of the Sun and the Solar System – Chap 8 |
| 18 Oct | News: Mercury – Chap 9 |
| 23 Oct | Venus – Chap 9 |
| 25 Oct | The Moon – Chap 9 (Professor Bombelli) |
| 30 Oct | The Earth – Chap 9 & 13 |
| 01 Nov | Mars – Chap 9 |
| 06 Nov | Asteroids and meteoroids – Chap 12; Sections 12.2 to 12.3 |
| 08 Nov | Jupiter – Chap 11 |
| 13 Nov | Saturn – Chap 11 |
| 15 Nov | Test 3 |
| 20-24 Nov | Fall Break/ Thanksgiving Holidays |
| 27 Nov | Uranus, Neptune and Pluto – Chap 11 & 12 |
| 29 Nov | Kuiper Belt Objects/Comets/ Solar System Formation – Chap 12 (Professor Bombelli) |
| 4-8 Dec | Finals – Specific date and time to be announced |

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| Grading Scheme: | 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 21st of August. Please come on the night you have signed up for. Labs are a required part of the course.