

ISP205L
Visions of the Universe Laboratory
Fall 2005 Course Schedule for Section 3 (Wednesday)

Week/Date	Weekly Lab (3:00-4:50 Wednesday) In Planetarium (3:00-4:50) except as noted.	Homework. SG = <i>SkyGazer Activities</i> from <i>Astronomy Media Workbook.</i> (due by 2PM following Wednesday)
1. Aug 31	Introduction. The Celestial Sphere. Directions. Star maps.	SG-1: Introducing SkyGazer
2. Sept 7	Star motions during the night. The view from different locations on Earth. Computing latitude.	SG-2: Motions of the Stars SG-3: Celestial Sphere *****
3. Sept 14	Seasonal motions. Path of the Sun (Analemma, etc.). Seasonal heating.	SG-4: Motions of the Sun. SG-5: Ecliptic, Parts 1-3. *****
4. Sept 21	Long-term motions (precession). Gyroscopes, etc.	Study for Sky Quiz.
5. Sept 28	SKY QUIZ	SG-8: Precession and Proper Motion.
6. Oct 5	Moon phases. Predicting them. Why we always see one side. Eclipses.	SG-9: Phases of the Moon
7. Oct 12	Inferior & Superior Planets. Motions of the planets (retrograde, etc.). Models of solar system. Kepler's laws. What defines the best model?	SG-12: The Inferior Planets
8. Oct 19	Parallax as seen in the sky. Outdoors experiment (weather permitting): Measuring parallax.	SG-13: The Superior Planets
9. Oct 26	Scale of the Solar System. How to determine it.	Study for Sky Quiz.
10. Nov 2	SKY QUIZ	SG-14: Observing the Planets
11, Nov 9	Properties of light. Spectroscopy of arc lamps (hands-on lab exercise in PL lobby).	Prepare for computer microlab following week, using material from course website.
12. Nov 16	Spectra of stars (in computer Microlab). GO TO 216 BESSEY HALL.	Prepare for computer microlab following week, using material from course website.
13. Nov 23	HR Diagram. Distance to the Pleiades. The scale of the galaxy. (in computer Microlab). GO TO 217 BESSEY HALL.	Prepare for computer microlab following week, using material from course website.
14. Nov 30	Measuring the Age of the Universe (in computer Microlab). GO TO 217 BESSEY HALL.	----
15. Dec 7	Where the chemical elements came from (Planetarium).	----
NO FINAL EXAM		***** means use modified instructions, on Angel answer sheet, for how to start this SG activity.