

**ISP205L**  
**Visions of the Universe Laboratory**  
**Fall 2005 Course Schedule for Section 4 (Thursday)**

<b>Week/Date</b>	<b>Weekly Lab</b> (3:00-4:50 Thursday) In Planetarium (3:00-4:50) except as noted.	<b>Homework.</b> SG = <i>SkyGazer Activities</i> from <i>Astronomy Media Workbook.</i> (due by 2PM following Thursday)
1. Sept 1	Introduction. The Celestial Sphere. Directions. Star maps.	SG-1: Introducing SkyGazer
2. Sept 8	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 15	Seasonal motions. Path of the Sun (Analemma, etc.). Seasonal heating.	SG-4: Motions of the Sun. SG-5: Ecliptic, Parts 1-3. *****
4. Sept 22	Long-term motions (precession). Gyroscopes, etc.	Study for Sky Quiz.
5. Sept 29	SKY QUIZ	SG-8: Precession and Proper Motion.
6. Oct 6	Moon phases. Predicting them. Why we always see one side. Eclipses.	SG-9: Phases of the Moon
7. Oct 13	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 20	Parallax as seen in the sky. Outdoors experiment (weather permitting): Measuring parallax.	SG-13: The Superior Planets
9. Oct 27	Scale of the Solar System. How to determine it.	Study for Sky Quiz.
10. Nov 3	SKY QUIZ	SG-14: Observing the Planets
11, Nov 10	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 17	Spectra of stars (in computer Microlab). <b>GO TO 217 BESSEY HALL.</b>	Prepare for computer microlab following week, using material from course website. <b>Due Dec 1.</b>
13. Nov 24	THANKSGIVING HOLIDAY	
14. Dec 1	HR Diagram. Distance to the Pleiades. The scale of the galaxy. (in computer Microlab). <b>GO TO 217 BESSEY HALL.</b>	Prepare for computer microlab following week, using material from course website.
15. Dec 8	Measuring the Age of the Universe (in computer Microlab). <b>GO TO 217 BESSEY HALL.</b>	----
NO FINAL EXAM		***** means use modified instructions, on Angel answer sheet, for how to start this SG activity.