

ISP205L
Visions of the Universe Laboratory
Spring 2006 Course Schedule for Section 5 (Friday)

| Week/Date | Weekly Lab (3:00-4:50 Friday) In Planetarium except as noted. | Homework. SG = <i>SkyGazer Activities</i> from <i>Astronomy Media Workbook.</i> (due at <i>start</i> of lab session the following week) |
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| 1. Jan 13 | Introduction. The Celestial Sphere. Directions. Star maps. | SG-1: Introducing SkyGazer (Due week 3) |
| 2. Jan 20 | Star motions during the night. The view from different locations on Earth. Finding your latitude. | SG-2: Motions of the Stars SG-3: Celestial Sphere |
| 3. Jan 27 | Seasonal motions. Path of the Sun (Analemma, etc.). Seasonal heating. | SG-4: Motions of the Sun. SG-5: Ecliptic, Parts 1-3. |
| 4. Feb 3 | Long-term motions (precession). Gyroscopes, etc. | No homework. Study for Quiz. |
| 5. Feb 10 | SKY QUIZ + CLICKER QUIZ | SG-8: Precession and Proper Motion. |
| 6. Feb 17 | Eclipses. | SG-9: Phases of the Moon |
| 7. Feb 24 | 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. Mar 3 | Parallax as seen in the sky. Outdoors experiment (weather permitting): Measuring parallax. | SG-13: The Superior Planets |
| 9. Mar 17 | Scale of the Solar System. How to determine it. | No homework. Study for Quiz. |
| 10. Mar 24 | SKY QUIZ + CLICKER QUIZ | SG-14: Observing the Planets |
| 11. Mar 31 | 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. Apr 7 | Age of the Pleiades Star Cluster (in computer Microlab). GO TO 216 BESSEY HALL. | Prepare for computer microlab following week, using material from course website. |
| 13. Apr 14 | Distance to the Pleiades (in computer Microlab). GO TO 216 BESSEY HALL. | Prepare for computer microlab following week, using material from course website. |
| 14. Apr 21 | The Age of the Universe (in computer Microlab). GO TO 216 BESSEY HALL. | No homework . |
| 15. Apr 28 | The Milky Way Galaxy (Planetarium). + CLICKER QUIZ | No homework . |
| NO FINAL EXAM | | |