

ISP205L
Visions of the Universe Laboratory
Spring 2006 Course Schedule for Section 3 (Wednesday)

| Week/Date | Weekly Lab (3:00-4:50 Wednesday) 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 11 | Introduction. The Celestial Sphere. Directions. Star maps. | SG-1: Introducing SkyGazer (Due week 3) |
| 2. Jan 18 | 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 25 | Seasonal motions. Path of the Sun (Analemma, etc.). Seasonal heating. | SG-4: Motions of the Sun. SG-5: Ecliptic, Parts 1-3. |
| 4. Feb 1 | Long-term motions (precession). Gyroscopes, etc. | No homework. Study for Quiz. |
| 5. Feb 8 | SKY QUIZ + CLICKER QUIZ | SG-8: Precession and Proper Motion. |
| 6. Feb 15 | Eclipses. | SG-9: Phases of the Moon |
| 7. Feb 22 | 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 1 | Parallax as seen in the sky. Outdoors experiment (weather permitting): Measuring parallax. | SG-13: The Superior Planets |
| 9. Mar 15 | Scale of the Solar System. How to determine it. | No homework. Study for Quiz. |
| 10. Mar 22 | SKY QUIZ + CLICKER QUIZ | SG-14: Observing the Planets |
| 11. Mar 29 | 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 5 | 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 12 | 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 19 | The Age of the Universe (in computer Microlab). GO TO 216 BESSEY HALL. | No homework . |
| 15. Apr 26 | The Milky Way Galaxy (Planetarium). + CLICKER QUIZ | No homework . |
| NO FINAL EXAM | | |