

Astronomy 107 Syllabus

This is a laboratory course in astronomy to observe the major features of the night sky, demonstrate physics basis of astronomical instruments and techniques, and experiment with astronomical phenomena.

Pre- or Corequisite: Astronomy 100

Two hours, 1 credit.

There are 12 experiments:

- 1 The Scale of Our Universe
- 2 The Motion of Stars and Planets in the Night Sky
- 3 Lunar Eclipse: The Moon's Diameter and its Distance to Earth . .
- 3.4 The Distance to the Moon
- 4 Elliptical Orbits of Planets
- 5 The Mass of Jupiter
- 6 The Wavelength of Light
- 7 Blackbody Radiation
- 8 The Sun's Rotation
- 9 Apparent and Absolute Magnitude of Stars; Parallax, Distance to the Stars
- 10 The Classification of Stars I
- 11 The Classification of Stars II
- 12 The Hubble Constant and the Age of the Universe

There is one experiment per week. The actual schedule of experiments for each semester is posted at the entrance of the laboratory.

The grade is based on the lab reports. Completion of ten laboratory exercises is required to get a letter grade. The laboratory reports are due at the beginning of the class following the measurement. All late laboratory reports are subject to a 10% weekly penalty after the due date excluding holidays.