

PHYS 1101 (section 03Z): Stellar Astronomy Laboratory
Syllabus for Spring 2006, W 3:00-4:50 am

Instructor: Dr. Wayne Keith (942-2524 x227, wayne.keith@angelo.edu)
Office Hours: VIN 123 - MW 9-11, TR 9:30-11, WR 2-3, and F 9-10
Web: <http://physics.angelo.edu/~wkeith> and <http://val.brookscole.com>
Text: Virtual Astronomy Laboratory Manual (for student ID code)
Class: VAL Class ID code 1230

Course Description: This laboratory course is intended as an introduction to stellar astronomy (the study of stars). The labs will be done on-line using VIRTUAL ASTRONOMY LABORATORIES. They can be completed at any computer with Internet access. Print-outs of the labs will be turned in at the next lab meeting. *Academic Honesty* rules will be strictly enforced. See page 30 in the Student Handbook for the rules governing "cheating" and "collusion".

Course Goal: Introduce you to the scientific method and teach you how to use it to solve problems. Significantly increase your factual knowledge about the science of observational astronomy.

Grading: Your final grade will be determined by averaging your highest 13 lab grades.

Attendance/Make up policy: Failing to attend the lab meeting and/or not submitting a printout of the lab write up will result in a zero for the lab. Completed labs must also be submitted online before 3 pm of the week following the assignment. If you cannot make a lab meeting, contact the instructor to see if you qualify to submit the lab early or make it up later.

ADA Statement: Persons with disabilities which may warrant academic accommodations must contact the Student Life Office, Room 112 University Center, in order to request such accommodations prior to any accommodations being implemented. You are encouraged to make this request early in the semester so that appropriate arrangements can be made.

Academic Honesty: Angelo State University expects its students to maintain complete honesty and integrity in their academic pursuits. Students are responsible for understanding the Academic Honor Code, which is contained in both print and web versions of the Student Handbook.

Phys1101 Lab Schedule

Date	Lab Number	Lab Name
1/25	VAL 1	Measurement and Unit Conversion
2/1	VAL 2	Properties of Light and Its Interaction with Matter
2/8	VAL 3	The Doppler Effect
2/15	VAL 4	Solar Wind and Cosmic Rays
2/22	VAL 11	The Spectral Sequence and the H-R Diagram
3/1	VAL 12	Binary Stars
3/8	VAL 13	Stellar Explosions, Novae, and Supernovae
3/22	VAL 14	Neutron Stars and Pulsars
3/29	VAL 15	General Relativity and Black Holes
4/5	VAL 16	Astronomical Distance Scales
4/12	VAL 17	Evidence of Dark Matter
4/19	VAL 18	Active Galactic Nuclei
4/26	VAL 19	The Hubble Law
5/3	VAL 20	Fate of the Universe