

ASTR 1020: Stellar & Galactic Astronomy

Lab Syllabus

Spring 2012 * 516 Kell Hall

Labs begin on the week of January 23rd.

Student Materials: Bring the following materials to class every lab period,

- Activities in Astronomy, 2011 Edition, by John W. Wilson,
- Metric ruler ~ 30 cm long,
- Protractor,
- Drawing compass,
- Scientific calculator.

Attendance: Students must attend the lab section for which they have enrolled. Because many labs are full, students cannot attend another section to make up a missed lab class. However, your lowest score will be dropped.

Honesty Policy: Students are expected to follow the honesty policies of the university. Any work that does not represent your own efforts will receive a score of zero. When group work is done, it is expected that each student in the group will reply to questions using their own words. Therefore, **do not copy other student's lab work or observations.**

Lab Grades: Laboratory work is to be completed in class and turned in at the end of each lab period. Late labs, or lab work done outside of class will not be accepted. Each completed lab will be scored on a scale of 0-10 points. Your lowest lab score will be dropped. Therefore, if you miss lab for any reason that will become your dropped score. Your average lab score will count as 25% of your overall ASTR 1020 grade. Failure to attend at least half of the lab classes will result in an F for the entire course because this is a lab science and lab attendance is required. So if you make an A in lecture but do not regularly attend lab you will fail the course.

Lab Website: More information about labs, observing sessions, teaching schedules, etc can be found at <http://www.chara.gsu.edu/lab>

Tentative Weekly Schedule

Dates	Description
Jan. 23-27	Lab 11: Rotation of the Sun TERM PROJECT: Project Medley (20 pts).* Lab 28: Visiting an Observatory** Both are required and cannot be dropped. Both are due on the last day of lab.
Jan. 30-Feb. 3	Lab 10: Spectroscopy and Atomic Structure
Feb. 6-10	CLEA: Spectral Classification (hand out in class)
Feb. 13-17	Lab 12: Eclipsing and Spectroscopic Binary Stars
Feb. 20-24	CLEA: Photometry of the Pleiades (hand out in class)
Feb. 27-Mar. 2	Spring Break, no labs meet this week.
Mar. 5-9	Lab 13: Ages and Distances of Star Clusters Turn in Project Medley Outline
Mar. 12-16	Lab 14: The Period-Luminosity Relationship
Mar. 19-23	CLEA: Radio Astronomy of Pulsars (hand out in class)
Mar. 26-30	Lab 15: Hubble's Law
Apr. 2-6	Handout: Exoplanets (Subject to Change!)
Apr. 9-13	Handout: Presentation Evaluations (Subject to Change!)
Apr. 16-20	Lab evaluation, Turn in Semester Project Medley Turn in Lab 28: Visiting an Observatory. To receive credit for this lab, you must turn in the completed and signed page from lab 28 in your lab manual. Your lab instructor will announce in lab evening observations to be held on campus to complete this requirement. OR you can attend any public night at a local observatory such as Fernbank Science Center , or Hard labor Creek Observatory .

***Up to 3 bonus points** will be awarded for presenting your project to the class.
 ****4 bonus points** will be awarded for attendance to a Hard Labor Creek observing session. **3 bonus points** will be awarded for attendance to a second observatory.

Total = 10 bonus points. That's one whole lab!

Lab Instructor's name: _____
 Lab Instructor's email: _____
 Lab Instructor's Office: _____