

ASTR 1010: Astronomy of the Solar System

Lab Syllabus

Fall 2019, 715 Langdale Hall

Course Description: This course consists of 10 activities and two projects which are designed for helping students understand the key concepts discussed in the lecture, ASTR 1010: Astronomy of the Solar System.

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

- Printed lab activity.
- Pencils & Eraser.

Lab Grades (130 points total):

1) Lab Activities: 10 points each. 90 points total.

- 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.** If you miss lab for any reason, that lab will be dropped.
- Your average lab score will count as 25% of your overall ASTR 1010 grade.
- Failure to attend at least a half of the lab (more than 6 labs) will result in an F for the lecture course because this is a lab science and lab attendance is required.

2) Term Project: 20 points. You can choose any topic related to the **ASTR 1010** course (Solar System Astronomy) for your project. The type of project can vary by your lab instructor's discretion. You will present your project at the end of the semester.

3) Visiting an Observatory: 10 points. You are expected to submit a report after attending one of the On-Campus Observations or any public observatory.

4) Lab Evaluation: 10 points. You will complete the lab evaluation in the last day of the lab. Attendance to this lab is mandatory.

Attendance: You must attend the lab section for which they have enrolled **every week.** You are not allowed to attend another section to make up a missed lab.

Tardiness: Arriving late to lab will result in a deduction on that day's lab in an amount decided by your lab instructor. If you arrive more than 30 minutes late, you will not be allowed to complete that day's lab and will receive a 0 for that lab.

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. **Do not copy other student's lab work or observation report.**

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

Tentative Weekly Schedule

Dates	Description
Aug 26 - 30	Organization Day. NO LABS MEET!
Sept 2 - 6	Labor Day Week. NO LABS MEET!
Sept 9 - 13	Lab 1: The Celestial Sphere and Planispheres Final reports: Term project: Project Presentation (20 pts) Visiting an Observatory (10 pts) Both are required and cannot be dropped.
Sept 16 - 20	Lab 2: Phases of the Moon
Sept 23 - 27	<i>Handout:</i> Eclipses
Sept 30 - Oct 4	Lab 3: Planetary Orbits
Oct 7 - 11	Lab 4: Mass of Jupiter
Oct 14 - 18	<i>Handout:</i> Scale Sizes of the Solar System
Oct 21 - 25	<i>Handout:</i> Simple Lenses and Telescope Design
Oct 28 - Nov 1	Lab 7: Lunar Features
Nov 4 - 8	Lab 9: Impacts and Craters, Term Project Topic
Nov 11 - 15	Lab 8: Landscapes of Mars, Term Project Outline
Nov 18 - 22	Term project due: Project Presentation. Attendance is required .
Nov 25 - 29	Thanksgiving Break. NO LABS MEET!
Dec 2 - 6	Lab Evaluation. Observatory report due. Attendance is required . To receive credit for this lab, you must turn in the completed and signed Observatory Report page. 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 observatories such as Fernbank Science Center , or Hard Labor Creek Observatory .

Lab Instructor's Name: Ryan Hall
 Lab Instructor's Email: hall@astro.gsu.edu
 Lab Instructor's Office: 25 Park Place , 6th Floor, Cubical across 608
 Lab Instructor's Website: astro.gsu.edu/hall

If you encounter problems that your lab instructor cannot handle, please contact your lecture class instructor.