

AST 111 Lab Astronomy Lab I

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**General rules
for Fall 2023**

**Java Tool:
Hubble at $v=c$**

[Download AHaH Java
code](#)

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Aug. 20, 2023

Contact the Instructor:
(480) 965-7143 or:
(480) 965-9416

Welcome to the AST 111 Lab: Astronomy Lab I for Fall 2023!

Please stand by for last minute notices on changes to the class rules and schedule as required by ASU. The AST 111 Labs in Fall 2023 are in person. Zoom may be used for some of our office hours, as indicated.

Course Overview: This Lab will familiarize you with basic concepts of astronomical observations: the night sky, the Moon, solar system planets and extrasolar planets.

Learning Outcomes: Understand and be able to use basic concepts of astronomical observations, the night sky, its constellations and their daily and seasonal motion, astronomical telescopes, and develop a basic understanding of the Moon, Mars, and planets in the outer solar system, as well as nearby exoplanets.

There are 4 types of lab exercises to be done: **Naked-eye based**, **Telescope-based**, **Computer/Instrument-based**, and **Planetary data based**. You will meet during the SAME time slot every week, but your classroom may change every week. Please check the Schedule button on the left for the room in which your section will meet each week. This schedule is TENTATIVE, so both the room number and Labs assigned to your Lab section each week schedule may change throughout the semester. Attendance will be taken at the start of each Lab section.

During the first lab meeting of the semester, you will be given a math evaluation exercise, so that you can determine if you will be comfortable with the level of math used in this course. Hence, don't miss the first meeting of the labs! There is no lab manual to purchase for this course. Click on Lab Scripts to see which Labs exercises will be used. **You will be expected to download these Lab Scripts each week (except the first week of Labs), print them out, and bring a paper copy to class.** Make sure you know how to do this, and click on Contacts to get in touch with your TA if needed.

There are several requisites for this class. First you all need to make sure you have web access. This is a **requirement** for this class. The University has provided ample access to computers all across the Main campus and throughout the residence halls. Second, you need to check your ASU email address regularly (daily), since this is the primary mechanism that your TA will use to contact you. (Canvas cannot send Emails to non-ASU Email addresses). If you have a problem with these policies, you need to see the Instructor for the class. He is Dr. Rogier Windhorst and can be reached in room GWC-508 or at (480) 965-7143 or (480) 965-5081 (checked daily), or Rogier.Windhorst@asu.edu .

There are NO AST LABS during the FIRST week of classes on the ASU Tempe campus: Th Aug. 17. ALL AST Labs on the ASU Tempe campus START the SECOND week of the semester on Monday Aug. 21-Thursday Aug. 24, 2023.

Labor Day (Monday Sept. 4) and Thanksgiving (Th. Nov. 23) are holidays, so there are NO Labs those days, nor on We. Nov. 22. The University has Fall break Mo-Tu Oct 9--10 in 2023. All Labs sections will do a minimum of 12 Labs + the Math Quiz during the semester (see Schedule page).

MAIN CLASS URL: <http://windhorst111lab.asu.edu/>

MIRROR SITE (in case main URL is down): <http://www.asu.edu/clas/hst/classes/ast111lab/>