

PHYSICS 1062 – Lab Sections

STARS AND THE UNIVERSE

Spring 2022

Lab Email: astrolab@unt.edu
Office #: (940) 369-8213
Office : ENV 220
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Office Hours:
Mon,Wed, Fri: 10am-5pm
Tues: 11am-5pm
Thus: 11am-3pm

ASTRONOMY LAB SYLLABUS

The PHYS 1062 Laboratory syllabus is designed to help you learn everything you need to know about astronomy labs. Read the entire syllabus and refer to it throughout the semester.

ACCESSING LAB CONTENT

All content for your labs is located in Canvas under the PHYS 1062 Section 501-*Stars and the Universe*.”

The web address for *Canvas*: <https://unt.instructure.com>

If *Canvas* is offline, you are still responsible for lab attendance.

COURSE Communication

Communicate questions about the lab course via **e-mail** to astrolab@unt.edu. **You must include: your name, course, and section number (PHYS1062.XXX)**. If you have a question about a specific lab session, make sure to include the lab’s name, date, and meeting time. An email response will be sent during normal business hours. Also, sign into *Canvas* often for announcements. **You can also come into ENV 220 with questions regarding scheduling. See office hours at the top of this page.**

COURSE ORGANIZATION, content, AND LOCATIONS

PHYS 1062 labs are collectively designed as an experimental component of the PHYS 1062 course. The overall point total you receive for lab coursework will count as a part of your final course grade, as determined by your professor.

PHYS 1062 includes both lectures and labs; however, **you must schedule your labs through *Canvas***, via the “PHYS 1062 Section 501 – Stars and Universe ” course Calendar. Astronomy labs cover 6 topics as listed below. Remember, if *Canvas* is offline, you are still responsible for lab attendance.

(Please note, labs are not offered in the order in which they are listed below)

Lab Name	Lab Location	Points
Celestial Sphere	Sky Theater - ENV 150	20
Stars and Telescopes	Observatory – ENV 290	20
Stellar Lifecycles	Sky Theater - ENV 150	15
Deep Sky Observations	Observatory - 290	15
Perspectives on the Universe	Sky Theater – ENV 150	15
Universe of Galaxies	Sky Theater - ENV 150	15
	Total	100 points

Scheduling Labs

Labs are scheduled through *Canvas*, via the the “PHYS 1062 Section 501 – Stars and the Universe” course Calendar. Each laboratory topic is presented only during the days listed in the Lab Calendar. Labs will begin on time and we suggest you show up at least 15 minutes early for check in (see Lab Check-in on page 3). Sign up for all labs **early** as places are reserved on a first-come, first-served basis. A document of the full semester’s Lab Calendar is also provided in the “Scheduling Labs” module in Canvas. To Schedule Labs:

1. Login to Canvas and select “PHYS 1062 Section 501 – Stars and the Universe” from the Canvas Dashboard **icon** on the far left of your screen.
2. Click on the Calendar **icon** located below the Dashboard **icon**.
3. Click the 'Find Appointment' button to the far top right of your screen.
4. In the drop-down menu, select the calendar for “PHYS 1062 Section 501 - Stars and the Universe” and press 'Submit'.
5. Scroll through the entire semester’s calendar carefully to see the available dates and times for each lab. Some labs are only offered for a week, while others are offered at different times throughout the semester. **Be sure to check ALL months of the semester.**
6. When you have decided on a date and time for the lab you want to attend, **be certain that it doesn’t conflict with any of your other classes or labs.** Then click on that calendar appointment.
7. A box with the event details will appear. Click 'Reserve' in the bottom left-hand corner. (Remember, plan to arrive early for check-in as the labs must start on time).
8. Make sure to schedule one visit for each lab listed in the table under “Course Organization and Content” in the previous section.

RESCHEDULING LABS AND “STANDYBY STATUS”

You can reschedule your lab if something comes up during the date/time that you originally reserved.

1. **FIRST STEP!** Un-reserve your current spot in your calendar appointment scheduler! **THIS MUST BE DONE BEFORE THE SCHEDULED TIME OF THAT LAB OR YOU WILL NEED TO COME TO THE LAB ON STANDBY. (See paragraph below)**
2. Click on the calendar appointment. A box with event details will appear.
3. Click the 'Un-Reserve' button in the bottom left-hand corner. We advise you to re-reserve another lab **right away.**

If there are no more available spots for the lab you missed, you may attend any of the remaining labs on “Standby Status.” Do so by showing up early to any additional sessions of the lab. The complete astronomy lab session schedule is in a document in Canvas labeled “PHYS 1062 Lab Schedule” in the Scheduling Labs Module. Use this to help you find additional sessions of the lab. **Standby attendance is on a first-come, first-served basis, and does not guarantee a seat will be available.** Show up early, and do not wait until the last session for the lab. Once all sessions of a particular lab topic have been presented, that lab cannot be made up. However, you can make up the points for ONE of the Labs you miss using the Replacement Lab (See Replacement Lab on page 3).

REPLACEMENT LAB

Even though there are no make-up labs offered, if you miss all the opportunities for given lab, a replacement Lab is available should you miss **ONE** of them. There is only **ONE** of these and it is designed to be completed on your own time. Should this occur, you will need to email us at astrolab@unt.edu. **Make sure to include the name of the Lab you missed in the email.** The Lab Team will then zero out the grades for the missed lab, assign you the Replacement Lab, and give you the information you need to complete it. This lab will then replace the grade for the missed lab, but in its own column in the Canvas Gradebook. **IMPORTANT: You will not be able to earn the points for the Pre-Lab for the missed lab that is replaced.** These points are part of the replacement lab.

REQUIRED MATERIALS

You will not be able to earn full credit for a lab unless you have ALL materials.

- Student/Picture ID – *Only students with picture IDs are admitted to lab.*
- "Smart Device" – fully-charged, wi-fi compatible (must connect to UNT wifi)
- Scientific calculator (not solar powered, can use phone app)
- Worksheet for the *Deep Sky Observations* must be printed from it's lab section in Canvas and brought to Check-In.

LAB EBOOKS AND PRE-LAB QUIZZES

You must read each lab write-up and complete the online pre-lab quiz questions prior to attending lab. These are designed to get you familiar with the lab material ahead of time. It is your responsibility to consult the "PHYS 1062 Section 501 – *Stars and the Universe*" Canvas course for both the write-ups and pre-lab quizzes. You are given 3 attempts on each pre-lab quiz. **Your first Pre-Lab quiz attempt is due when you check-in to lab and you risk not being admitted to lab if it is incomplete.** Any additional Pre-Lab attempts are due the last day a lab is offered.

LAB DURATION/OBSERVATORY TRANSPORTATION

Each lab lasts two hours, but this doesn't count transportation time for the two observatory labs. Plan on those taking about two and a half hours. Transportation is provided after instruction in ENV 290 to our Observatory if weather conditions are favorable. Otherwise, cloudy night labs are completed in ENV 290. **Students are NOT permitted to drive to the Observatory (Rafes Urban Astronomy Center).** Additionally, please come prepared in proper attire with regards to weather conditions, as some labs take place outdoors.

LAB CHECK-IN

Lab Check-in begins 15 minutes before your scheduled lab time in front of that lab's location: ENV 150 for the Sky Theater Planetarium and ENV 290 for the Observatory. See the table on page 1 for each lab's location. Check into lab with required materials before the lab's start time or your seat can be forfeited to a student who is present on "standby".

- **No one will be admitted to a lab session without a picture ID, completed Pre-Lab Quiz, and WiFi capable device**
- **No one will be admitted late to lab sessions.**

BAD WEATHER CANCELLATIONS

You are required to attend the observatory labs even if the sky is overcast or rainy. Labs are cancelled only if the University officially closes; please check the University website at www.unt.edu or with the campus operator at (940) 565-2000 for closing information.

Only students who have signed-up for sessions prior to any "official" University closing times will receive credit. No credit will be given to standby students for cancelled lab sessions.

GRADE POINTS

Each of the labs is worth up to 15 points, except for *Celestial Sphere* and *Stars and Telescopes* (each worth up to 20 points). Points are assigned for a completed pre-lab, lab exercise, and quiz. Points are assigned for a completed pre-lab, lab exercise, and quiz. The overall point total will be the **sum of the points earned** for each lab, with 100 being the maximum possible number of points you can earn.

Lab Point totals can be reviewed in the “PHYS 1062 Section 501 – *Stars and the Universe*” Canvas course gradebook.

At the end of the semester, your Lab Point Totals will be delivered to your professor, who will then factor this number into your course grade. To find out how your lab grade impacts your final course grade, please refer to your instructor’s course syllabus.

If you have a grade dispute, it must be reported no later than **FIVE business days** after the grade posts to Canvas. After this time, the grade will stand.

ADDITIONAL GRADE INFORMATION

1. *Once all sessions of a particular lab have been conducted, that lab topic will no longer be available. Each lab can only be taken once.*
2. *If all opportunities for a lab are missed, the replacement lab can be done ONCE to replace a missing lab grade. Please refer to the “[Replacement Lab](#)” section for more information.*
3. *There are NO EXTRA CREDIT assignments.*
4. *NO WORK is accepted late or outside of laboratory sessions.*

ASTRONOMY TUTORING HOURS

TBA 2nd week of classes in Canvas

ACADEMIC DISHONESTY AND MISCONDUCT

Academic dishonesty may result in a grade of zero for the lab in question, expulsion from that lab, and a report to the dean of students.

It is unlawful for any person to interfere with classes or other university activities by any form of disruption, including excessive noise. Texting during lab is prohibited. Violators may be asked to leave and a grade of zero may be assigned for the lab.



HEALTH AND SAFETY WARNING

MOSQUITO PROTECTION

Protect yourself from mosquito-borne illness by applying mosquito repellent before you attend the Rafe Urban Astronomy Center.

ADA Policy

The University of North Texas Department of Physics will make reasonable adjustments to ensure equal opportunity for qualified persons with disabilities to participate in all physics programs and activities. Please e-mail the astronomy office at astrolab@unt.edu for accommodations.