PHY 1311 Course Syllabus

Course Objectives

To provide an overview of the elements of the field of astronomy. Students will familiarize themselves with basic scientific principles that underlying the science of astronomy. Their focus will include the properties, structure and evolution of planets, stars, galaxies and the large scale structure of the cosmos. Modern applications will be discussed. Homeworks will be an emphasis in the class instruction. A dedicated lab section complements the classtime portion of the class.

Method of Instruction

This course will utilize several different modes of instruction. Lectures, or presentations of the material of the course, will deliver some of this material for expansion and discussion on the textbook reading. Homework assignments are assigned at the beginning of each unit of material, corresponding roughly to one chapter of the course textbook. Reading will be encouraged thru reading quizzes, given each week that does not include an Exam. There will be two midterms and one final exam.

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This is a survey course which will include some basic knowledge and practice of science. It will occasionally involve calculations, which may be assisted thru some familiarity with algebra. Students will learn about the following topics: the concept of orbital mechanics; the nature and role of the electromagnetic spectrum; structure and evolution of celestial bodies; and the impact of gravitation on astronomical processes.

Statement on Communication

You may contact me via email using "PHY 1311" on the Subject line. I will respond to your question or email within 48 hours. Responses might be delayed on holidays and weekends. Assignments will be graded within 7 days of a quiz, or an assignment due date. My grading timeline might be delayed for midterm exams.

Statement on COVID-19 and Masks in Class

Masks are not required in this course. This masking requirement is subject to change during the semester, and any changes will be announced in class, posted clearly in Canvas, and updated in the syllabus.



Netiquette

Netiquette is a set of rules for behaving properly online. Something about cyberspace makes it easy for people to forget that they are interacting with other real people. The following bullet points cover some basics to communicating online:

- Be sensitive to the fact that there will be cultural and linguistic backgrounds, as well as different political and religious beliefs, plus just differences in general.
- Use good taste when composing your responses in Discussion Forums. Swearing and profanity is also part of being sensitive to your classmates and should be avoided. Also consider that slang can be misunderstood or misinterpreted.
- Don't use all capital letters when composing your responses as this is considered "shouting" on the Internet and is regarded as impolite or aggressive. It can also be stressful on the eye when trying to read your message.
- Be respectful of your others' views and opinions. Avoid "flaming" (publicly attacking or

insulting) them as this can cause hurt teelings and decrease the chances of getting all different types of points of view.

- Be careful when using acronyms. If you use an acronym it is best to spell out its meaning first, then put the acronym in parentheses afterward, for example: Frequently Asked Questions (FAQs). After that you can use the acronym freely throughout your message.
- Use good grammar and spelling, and avoid using text messaging shortcuts.
- Emoticons (http://www.merriam-webster.com/dictionary/emoticon) and emojis (https://en.oxforddictionaries.com/definition/emoji) can be used to add emotion to your text or convey invisible body language, as long as they are used tastefully.
- For synchronous meetings, make sure you are in a safe and private place (please do not connect while you are driving or when there might be distractions around you).
 Also, for a better experience, make sure to use headphones and make sure you are not interrupted.

Institutional Policies & Procedures

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Disability Accommodations

Students who need academic accommodations for a disability must first register with Disability Accommodations & Success Strategies (DASS). Students can call <u>214-768-1470</u> (tel:214-768-1470) or visit <u>http://www.smu.edu/Provost/SASP/DASS</u> \Rightarrow (<u>http://www.smu.edu/Provost/SASP/DASS</u>) to begin the process. Once they are registered and approved, students then submit a DASS Accommodation Letter through the electronic portal, *DASS Link*, and then communicate directly with each of their instructors to make appropriate arrangements. Please note that accommodations are not retroactive, but rather require advance notice in order to implement.

Sexual Harassment

All forms of sexual harassment, including sexual assault, dating violence, domestic

violence and stalking, are violations of SMU's Title IX Sexual Harassment Policy and may also violate Texas law. Students who wish to file a complaint or to receive more information about the grievance process may contact Samantha Thomas, SMU's Title IX Coordinator, at <u>accessequity@smu.edu (mailto:accessequity@smu.edu)</u> or <u>214-768-3601</u> (<u>tel:214-768-3601</u>). Please note that faculty and staff are mandatory reporters. If students notify faculty or staff of sexual harassment, they must report it to the Title IX Coordinator. For more information about sexual harassment, including resources available to assist students, please visit <u>www.smu.edu/sexualmisconduct</u> () (<u>http://www.smu.edu/sexualmisconduct</u>).

Pregnant or Parenting Students

Under Title IX, students who are pregnant or parenting may request academic adjustments by contacting Elsie Johnson (elsiej@smu.edu) in the Office of the Dean of Students, or by calling <u>214-768-4564 (tel:214-768-4564)</u>. Students seeking assistance must schedule an appointment with their professors as early as possible, present a letter from the Office of the Dean of Students, and make appropriate arrangements. Please note that academic adjustments are not retroactive and, when feasible, require advance notice to implement.

Religious Observance

Religiously observant students wishing to be absent on holidays that require missing class should notify their professors in writing at the beginning of the semester, and should discuss with them, in advance, acceptable ways of making up any work missed because of the

absence (<u>https://www.smu.edu/StudentAffairs/Chaplain/ReligiousHolidays</u> (<u>https://www.smu.edu/StudentAffairs/Chaplain/ReligiousHolidays</u>)).

Affected quizzes or exams will be given prior to the rest of the class. No other make-up quizzes or exams will be granted.

Medical-Related Absences

Students who become too ill to take a midterm test, or attend one of the labs, must notify the instructor ahead of the class or lab session if possible. If the illness is sudden, notification must be given within one day of the missed event. In these cases, a make-up test will be arranged.

Those who test positive for COVID-19 and need to isolate, or who are notified of potential exposure, must follow <u>SMU's Contact Tracing Protocol</u> ⊟→

 $(\underline{https://www.smu.edu/Coronavirus/Contact-Tracing})_ \boxminus$

(https://www.smu.edu/Coronavirus/Contact-Tracing) To ensure academic continuity and avoid any course penalties, students should follow the same procedures described by their instructors as they would for any other medical-related absence in order to be provided with appropriate modifications to assignments, deadlines, and exams.

Excused Absences for University Extracurricular Activities

Students participating in an officially sanctioned, scheduled university extracurricular activity should be given the opportunity to make up class assignments or other graded assignments that were missed as a result of their participation. It is the responsibility of the student to make arrangements for make-up work with the instructor prior to any missed scheduled examinations or other missed assignments. (See <u>2020-2021 SMU</u> <u>Undergraduate Catalog</u> (https://catalog.smu.edu/content.php?) <u>catoid=51&navoid=4645&hl=%22excused+absences%22&returnto=search</u> under "Enrollment and Academic Records/Excused Absences.")

Affected quizzes or tests will be given prior to the rest of the class. No other make-up quizzes or tests will be granted.

Student Academic Success Programs

Students needing assistance with writing assignments for SMU courses may schedule an appointment with the Writing Center through Canvas. Students who would like support for subject-specific tutoring or success strategies should contact SASP, Loyd All Sports Center, Suite 202; <u>214-768-3648 (tel:214-768-3648)</u>; <u>https://www.smu.edu/sasp</u>

Academic Dishonesty

Students are expected to embrace and uphold the <u>SMU Honor Code</u> (<u>https://www.smu.edu/StudentAffairs/StudentLife/StudentHandbook/HonorCode</u>). Violations of the Honor Code will be acted upon in accordance with the policies and procedures outlined in the <u>Mustang Student Handbook</u> (<u>https://www.smu.edu/StudentAffairs/StudentLife/StudentHandbook/</u>).</u>

There will be no use of AI/ChatGPT or other machine learning software in homeworks assignments, lab reports, or exams. The use of AI is antithetical the spirit of learning the science of this course and will be considered cheating in this class.

Grading

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In all cases, it is *crucial* to show your work to get credit for solutions to physics problems. Regrading requests must be well-justified in writing. The lowest homework and the lowest quiz grades will be omitted from the semester average grade.

<u>Grades (https://smu.instructure.com/courses/133109/grades)</u> will be available through Canvas and students may access them to determine where they stand in this course at any time. Your grade will be calculated according to the *"Assignments are weighted by group:"* table displayed in this syllabus page. Please make sure to check your grade book to see your instructors feedback on your projects and activities. To see in-line feedback, go to the assignment, then click on View Feedback if applicable. It is your responsibility to check for your instructor's feedback and make appropriate improvements to assignments if necessary.

Grading Scale:

A: > 90%

B: 80 - 89%

C: 70 - 79%

D: 60 - 69%

F: < 60%

Requirement/Description of Assignment Groups

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Homework [25% of Grade]

Homework is the foundation of your effort to master the subject material of this course. Remember to show your work. Homework will be due the class day after the completion of the material on the syllabus schedule. No late homework is accepted. The lowest homework grade will be dropped in the final course grade.

Midterm Exams [10% of Grade each]

The midterm exam provides a milestone for you to test your knowledge of the course material to that point, and your facility with that knowledge. This supports Learning Objectives 1 thru 3. Exams are closed book, and you may bring a single 8.5"x11" sheet with important equations and physical constants relevant for the material.

Labs [33% of Grade]

The labs are detailed in the sections N10 and N11 of this course.

Final Exam [22% of Grade]

The final exam allows a final assessment of your ability to satisfy learning objectives 1-3 of this course. Preparation for the final is intended to further learning. This exam is cumulative over the whole course. Exams are closed book, and you may bring a two sides of a 8.5"x11" sheet with important equations and physical constants relevant for the material.



For the full course Outline/Calendar, please visit the <u>Modules</u> (<u>https://smu.instructure.com/courses/133109/modules</u>) section of the course.

Disclaimer: The instructor reserves the right to make changes to the schedule of the class. Any alterations will be announced in class, in Canvas or via email by the instructor. Students who do not check Canvas or their email assume full responsibility for missing alterations to the course.



Tech Requirements & Help

Please be sure that your device or devices meet the **technical requirements** for Canvas. <u>Technical requirements (https://community.canvaslms.com/docs/DOC-2059</u>) and <u>browser requirements (https://community.canvaslms.com/docs/DOC-1284)</u> for Canvas are located in the <u>Canvas Student Guide</u> (<u>https://community.canvaslms.com/docs/DOC-4121#jive_content_id_Computer_Specifications</u>) . If you need Technical Support with Canvas, click the Help link on the left side <u>Global</u> <u>Navigation (https://community.canvaslms.com/docs/DOC-1281)</u>. From there you can Search Canvas Guides, Chat with Support, or Submit a Request for assistance. You can also contact the SMU <u>IT Help Desk (http://www.smu.edu/OIT/Help)</u> for assistance with Canvas.

To be successful in this course, students should have basic keyboarding and computer

skills, and be comfortable navigating the Internet. This fully online course occurs primarily via <u>canvas.smu.edu (https://canvas.smu.edu/)</u>. <u>Zoom</u>

(<u>https://www.smu.edu/OIT/services/zoom</u>). Web Conferencing is used in this course as well for virtual (i.e., real-time, synchronous) meetings, and <u>Panopto</u>

(https://howtovideos.hosted.panopto.com/Panopto/Pages/Viewer.aspx?id=816a7666-1ae3-

<u>49b0-957c-6455edee8554</u>) is used for recording audio/video assignments. This course also uses the <u>Respondus LockDown Browser and Monitor</u>

(https://www.smu.edu/OIT/Services/LockDownBrowser) for online exams.

IMPORTANT

A **webcam** is required for recording activities and taking exams. If your device does not have a built-in webcam, one can be purchased at a local consumer electronics store or through an online retailer like <u>Amazon (https://www.amazon.com/s/ref=nb_sb_noss_1?</u> <u>url=search-alias%3Daps&field-keywords=webcam)</u>.

TECHNICAL SUPPORT

If you run into any technical problems, there are a number of resources available to you. You can contact the <u>SMU IT Help Desk (http://www.smu.edu/OIT/Help)</u> for assistance with Canvas and Zoom. Otherwise, here are additional useful resources:

- <u>Canvas (https://community.canvasIms.com/docs/DOC-4121)</u>
 - Click <u>Help</u> A (<u>http://help.instructure.com/</u>) on the <u>Global Navigation</u> (<u>https://community.canvaslms.com/docs/DOC-</u> <u>4121#jive_content_id_Global_Navigation</u>) to search the Guides, <u>Chat</u> (<u>https://cases.canvaslms.com/apex/liveagentchat</u>) or contact Instructure Support via email or phone
- Panopto
 - Search the <u>Panopto Support site (https://support.panopto.com/s/)</u> (Links to an external site.) for forums and documentation, or contact the <u>SMU IT Help Desk.</u> (<u>https://www.smu.edu/oit/help</u>)
- Zoom
 - Search their <u>Knowledge Base (https://support.zoom.us/hc/en-us)</u> or <u>Submit a</u>

<u>Request (https://support.zoom.us/hc/en-us/articles/201362003-Zoom-Technical-Support) (https://support.zoom.us/hc/en-us/articles/201362003-Zoom-Technical-Support)</u>

PANOPTO VIDEO APP for CANVAS

If requested, you will use the Panopto

(https://support.panopto.com/s/topic/0TO39000003VN8GAM/getting-started) to submit video assignments. Be sure your device or devices meet the Panopto's <u>technical</u> requirements (https://support.panopto.com/s/article/System-Requirements), and if you need Panopto support contact the SMU <u>IT Help Desk (https://www.smu.edu/OIT/Help)</u>.

RESPONDUS LOCKDOWN BROWSER and MONITOR

This course might require the use of LockDown Browser and a webcam for online exams. The webcam can be built into your computer or can be the type that plugs in with a USB cable. Watch this <u>short video (http://www.respondus.com/products/lockdownbrowser/student-movie.shtml)</u> to get a basic understanding of LockDown Browser and the webcam feature. A student <u>Quick Start Guide (PDF)</u> (<u>http://www.respondus.com/products/monitor/guides.shtml)</u> is also available.

Then download and install LockDown Browser from this link:

http://www.respondus.com/lockdown/download.php?id=951749825 (http://www.respondus.com/lockdown/download.php?id=951749825)

To ensure LockDown Browser and the webcam are set up properly, do the following:

- Start LockDown Browser, log in to <u>http://canvas.smu.edu (http://canvas.smu.edu/)</u>, and select this course.
- Locate and select the Help Center button on the LockDown Browser toolbar.
- Run the Webcam Check and, if necessary, resolve any issues.
- Run the **System & Network Check**. If a problem is indicated, see if a solution is provided in the Knowledge Base. Troubleshooting information can also be emailed to our institution's help desk.

When taking an online exam that requires LockDown Browser and a webcam, remember

the following guidelines:

- Ensure you're in a location where you won't be interrupted
- Turn off all other devices (e.g. tablets, phones, second computers)
- Clear your desk of all external materials not permitted books, papers, other devices
- Remain at your computer for the duration of the test
- If the computer or networking environment is different than what was tested above, repeat the Webcam and System checks prior to starting the test
- To produce a good webcam video, do the following:
 - Avoid wearing baseball caps or hats with brims
 - Ensure your computer or tablet is on a firm surface (a desk or table) not on your lap, a bed, or other surfaces that might move
 - If using a built-in webcam, avoid tilting the screen after the webcam setup is complete
 - Take the exam in a well-lit room and avoid backlighting, such as sitting with your back to a window
- Remember that LockDown Browser will prevent you from accessing other websites or applications; you will be unable to exit the test until all questions are completed and submitted.

Additional resources related to Respondus LockDown Browser and Monitor, including a link to download the LockDown Browser iPad app, are located

at https://www.smu.edu/OIT/Services/LockDownBrowser

(<u>https://www.smu.edu/OIT/Services/LockDownBrowser</u>). Respondus technical support is available either through the SMU <u>IT Help Desk (https://www.smu.edu/OIT/Help)</u>

or <u>Respondus</u>

(https://support.respondus.com/support/index.php?/Default/Tickets/Submit/RenderForm/2).

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Zoom (https://www.smu.edu/OIT/Services/Zoom) will be used for online synchronous (i.e., real-time) meetings in this course. Please be sure your devices meet the <u>technical</u> requirements (https://support.zoom.us/hc/en-us/articles/201362023-System-Requirements-for-PC-Mac-and-Linux) for Zoom.

PRIVACY POLICIES

- Canvas by Instructure (https://www.canvaslms.com/policies/privacy)
- Panopto Privacy (https://www.panopto.com/privacy/)
- Respondus LockDown Browser (https://www.respondus.com/about/privacy.shtml)
- SMU OIT Policies and Legislation (https://www.smu.edu/OIT/Infosec/Policy)
- Zoom (https://zoom.us/privacy)

ACCESSIBILITY

- Canvas
 - Accessibility within Canvas (https://community.canvasIms.com/docs/DOC-2061)
 - Voluntary Product Accessibility Template

(https://www.canvaslms.com/accessibility)

- Panopto (https://support.panopto.com/s/article/Learn-About-Accessibility-Features)
- <u>Respondus LockDown Browser (http://www.respondus.com/products/accessibility-lockdown.shtml)</u>
- Zoom (https://zoom.us/accessibility)



The following services and resources are available to SMU students:

- <u>Altshuler Learning Enhancement Center (http://www.smu.edu/Provost/ALEC?</u> <u>utm_medium=alias%20redirect&utm_source=smu&utm_campaign=%2Falec</u>)
 - ALEC offers study-skill workshops and can help you with learning strategies and test preparation. Their phone number is <u>(214)</u> 768-3648 (tel:(214) 768-3648).
- <u>Altshuler Writing Center (http://www.smu.edu/Provost/ALEC/WritingCenter)</u>
 - The Altshuler Writing Center is open to all undergraduate students who need technical advice on their assigned papers. The writing center is open most afternoons and a few evenings. To work with someone at the writing center you

must make an appointment in advance. To contact please call (214) 768-3648 (tel: (214) 768-3648).

- DASS (https://www.smu.edu/Provost/ALEC/DASS)
 - Students needing academic accommodations for a disability must first contact <u>Disability Accommodations & Success Strategies</u>
 (http://www.smu.edu/Provost/ALEC/DASS) (DASS) at (214) 768-1470 (tel:(214) 768-1470) to verify the disability and to establish eligibility for accommodations. They should then schedule an appointment with the professor to make appropriate arrangements. (See an attachment describes the DASS procedures
 (https://www.smu.edu/Provost/SASP/DASS/DisabilityAccommodations/PoliciesandProcedu and relocated office.) If you have a disability accommodation you must contact DASS and have a letter of accommodation delivered to the instructor no later than the third day of class. You can email a scanned copy of your letter.
- my.SMU (https://my.smu.edu/)
 - Online portal for SMU students that allows you to view personal information, emergency contact information, register for AARO (if applicable), view class schedule, enroll in classes, add/drop/swap classes, view grades and view financial aid packages.
- <u>SMU Bookstore (http://smu.bncollege.com/webapp/wcs/stores/servlet/BNCBHomePage?</u> storeld=17551&catalogId=10001&langId=-1)
 - Information on textbooks, events, buyback, promotions and more.
- <u>SMU Bursar (http://www.smu.edu/EnrollmentServices/Bursar)</u>
 - Information on student finances, bill pay and more.
- <u>SMU Counseling Services</u>

(http://www.smu.edu/StudentAffairs/HealthCenter/Counseling)

- College can be a stressful time. There are many transitions and major life events occurring while you are a college student. If you or a friend is going through a difficult time and needs someone to talk to please seek out the resources provided by the counseling center, located in the Health Center and their phone number is (214) 768-2211 (tel:(214) 768-2211). For 24 hour help contact (214) 768-2860 (tel:(214) 768-2860).
- SMU Dedman Recreation Center (http://www.smu.edu/StudentAffairs/RecSports)
 - Regular exercise is one of the best things you can do for your mental and physical well-being.
- <u>SMU Libraries (https://www.smu.edu/Libraries)</u>

- SMU Libraries has reference librarians happy to help with your research needs.
 Contact a librarian at <u>http://askalibrarian.smu.edu/ (http://askalibrarian.smu.edu/)</u> or call <u>(214) 768-2326 (tel:(214) 768-2326)</u>.
- SMU OIT (https://www.smu.edu/OIT)
 - OIT provides computing, information processing, and communications resources to satisfy the needs of faculty, students, and staff, and offers comprehensive support services to help them use technology effectively and creatively.
- SMU Student Affairs (http://www.smu.edu/studentaffairs)
 - SMU Student Affairs is a network of <u>departments, programs and services</u> (<u>https://www.smu.edu/StudentAffairs/VPSA/Departments</u>) focused on supporting students' out-of-classroom experiences and co-curricular learning.

Date	Details	Due
Tue Jan 21, 2025	Overview and Reading (https://smu.instructure.com/courses/133109/assignments/1	y 12:30pm 087161)
Wed Jan 22, 2025	Lecture: Wk1 Foundations of Astronomy (https://smu.instructure.com/courses/133109/assignments/1	e by 10am <u>087144)</u>
Mon Jan 27, 2025	Wk 2 Overview, Reading (https://smu.instructure.com/courses/133109/assignments/1	y 12:30pm 087177)
	Lab: Navigating the Celestial Sphere (see separate Lab Sections for material) (https://smu.instructure.com/courses/133109/assignments/1	ue by 1pm 1 <u>087139)</u>
Wed Jan 29, 2025	Lecture: Wk2 Astronomical Observation due (https://smu.instructure.com/courses/133109/assignments/1	e by 10am 087150)
	Wk 3 Overview & Reading due by (https://smu.instructure.com/courses/133109/assignments/1	y 12:30pm

Course Summary:

Mon Feb 3, 2025	Lab: Light and Observation (see Lab sections) due by 1pm (https://smu.instructure.com/courses/133109/assignments/1087137)
	Unit 1 Homework due by 11:30pm (https://smu.instructure.com/courses/133109/assignments/1087162)
Wed Feb 5, 2025	Lecture: Wk3 The Solar System (https://smu.instructure.com/courses/133109/assignments/1087151)
Fri Feb 7, 2025	Unit 2 Homework due by 2pm (https://smu.instructure.com/courses/133109/assignments/1087164)
Mon Feb 10, 2025	Wk 4 Overview & Reading due by 12:30pm (https://smu.instructure.com/courses/133109/assignments/1087179)
	Lab: Solar System and Planetary Orbits (https://smu.instructure.com/courses/133109/assignments/1087140)
Wed Feb 12, 2025	Lecture: Wk4 Terrestrial Planets (https://smu.instructure.com/courses/133109/assignments/1087152)
Mon Feb 17, 2025	Wk 5 Overview & Reading due by 12:30pm (https://smu.instructure.com/courses/133109/assignments/1087180)
	Lab: The Moon due by 1pm (https://smu.instructure.com/courses/133109/assignments/1087143)
Wed Feb 19, 2025	Lecture: Wk5 The Gas Giants (https://smu.instructure.com/courses/133109/assignments/1087153)
Fri Feb 21, 2025	Unit 3 Homework due by 6pm (https://smu.instructure.com/courses/133109/assignments/1087165)

Mon Feb 24, 2025	Wk 6 Overview & Reading due by 12:30pm (https://smu.instructure.com/courses/133109/assignments/1087181)
	Lab: Comparative Dianetology due by 1pm (https://smu.instructure.com/courses/133109/assignments/1087130)
	Unit 4 Homework due by 6pm (https://smu.instructure.com/courses/133109/assignments/1087166)
Wed Feb 26, 2025	Lecture: Wk6 Pluto and Beyond due by 10am (https://smu.instructure.com/courses/133109/assignments/1087154)
	Unit 5 Homework due by 6pm (https://smu.instructure.com/courses/133109/assignments/1087167)
Fri Feb 28, 2025	Midterm Exam 1 due by 3pm (https://smu.instructure.com/courses/133109/assignments/1087159)
	Wk 7 Overview & Reading due by 12:30pm (https://smu.instructure.com/courses/133109/assignments/1087182)
Mon Mar 3, 2025	Lab: Kuiper Belt and Exoplanets due by 1pm (https://smu.instructure.com/courses/133109/assignments/1087136)
Wed Mar 5, 2025	Lecture: Wk7 Observing Stars due by 10am (https://smu.instructure.com/courses/133109/assignments/1087155)
Fri Mar 7, 2025	Unit 6 Homework due by 6pm (https://smu.instructure.com/courses/133109/assignments/1087168)
	Wk 8 Overview & Reading due by 12:30pm (https://smu.instructure.com/courses/133109/assignments/1087183)
Mon Mar 10, 2025	Eab: Hertzsprung-Russell Eab: He

	Diagram due by 1pm (<u>https://smu.instructure.com/courses/133109/assignments/1087131)</u>
Wed Mar 12, 2025	Lecture: Wk8 Star Birth and Hydrogen Burning (https://smu.instructure.com/courses/133109/assignments/1087157)
Fri Mar 14, 2025	Unit 7 Homework due by 6pm (https://smu.instructure.com/courses/133109/assignments/1087169)
Mon Mar 17, 2025	Lab: Brightness, Distance and Cepheids (see Lab section for details) (https://smu.instructure.com/courses/133109/assignments/1087129)
Mon Mar 24, 2025	Wk 9 Overview & Reading due by 12:30pm (https://smu.instructure.com/courses/133109/assignments/1087184)
	Unit 8 Homework (https://smu.instructure.com/courses/133109/assignments/1087170)
Wed Mar 26, 2025	Lecture: Wk9 Stellar Old Age and Death (https://smu.instructure.com/courses/133109/assignments/1087158)
Fri Mar 28, 2025	Unit 9 Homework (https://smu.instructure.com/courses/133109/assignments/1087171)
Mon Mar 31, 2025	Lab: Stellar Lifetimes and Black Holes (https://smu.instructure.com/courses/133109/assignments/1087132)
Fri Apr 4, 2025	Midterm Exam 2 due by 3pm (https://smu.instructure.com/courses/133109/assignments/1087160)
Mon Apr 7, 2025	Wk 11 Overview & Reading due by 12:30pm (https://smu.instructure.com/courses/133109/assignments/1087173)

	Lab: Milky Way due by 1pm (<u>https://smu.instructure.com/courses/133109/assignments/1087138)</u>
Wed Apr 9, 2025	Lecture: Wk11 Galaxies due by 10am (https://smu.instructure.com/courses/133109/assignments/1087146)
Mon Apr 14, 2025	Lab: Classifying Galaxies due by 1pm (https://smu.instructure.com/courses/133109/assignments/1087133)
Mon Apr 21, 2025	Lab: Galactic Evolution and Mergers (see Lab sections) (https://smu.instructure.com/courses/133109/assignments/1087135)
Mon Apr 28, 2025	Lab: Cosmic Distance Ladder (see Lab sections) due by 1pm (https://smu.instructure.com/courses/133109/assignments/1087134)
Mon May 5, 2025	Lab: The Dark Sector (see Lab sections) due by 1pm (https://smu.instructure.com/courses/133109/assignments/1087142)
Tue May 6, 2025	Extra credit: Astronomy and Art due by 11:59pm (https://smu.instructure.com/courses/133109/assignments/1087126)
Thu May 8, 2025	Final Exam due by 6pm (<u>https://smu.instructure.com/courses/133109/assignments/1087127)</u>
	Unit 11 Homework (<u>https://smu.instructure.com/courses/133109/assignments/1087163)</u>