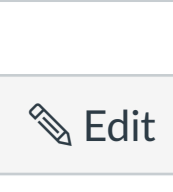







Fall Sem 2022

# Astronomy 217 Fall 2022

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## Class Meeting Times

Lecture: M W F 11:30am - 12:20pm, Nielsen Physics Building 306

Lab: Tu 7:40pm-9:35pm, Nielsen Physics 108

or W 7:40pm-9:35pm, Nielsen Physics 108

Office hours, South College 310A, M W F by appointment.

## Format

To the extent we can do so safely, the course lectures and labs will be face-to-face. For the lectures, uploaded course notes will be provided. For the labs, on-the-roof telescope observing will require in-person attendance.

## Grading

Semester grades will include the results of examinations, homework, laboratory work and class participation. Exams: 50% Lab: 25% Homework: 15% Participation: 10%

### Exams (50%)

There will be two in-class examinations, plus a final examination. The first in class examination (tentatively scheduled for October 10) will cover Chapters 1-4 from the textbook. The second in-class examination (tentatively scheduled for November 4) will cover Chapters 5-7 from the textbook. Each in-class exam will account for 12.5% of the semester grade. The final examination (scheduled for Dec. ??) will concentrate on material in chapters 8-12 of the text book, but also include some material from the earlier chapters. The final exam counts as 25% of the semester grade.

### Laboratory (25%)

Hands-on activities in the laboratory are a vital element of the course and therefore represent a significant part of the course grade. Laboratories start after the first week of the semester. More information will be forthcoming shortly.

### Homework (15%)

There will be a short set of homework problems for each Lesson (equivalently Chapter) due at the beginning of the lecture following the final lecture on that Lesson. Grades will be assigned for completeness rather than accuracy, with deductions of 20% per day for lateness.

### Participation (10%)

The benefit of an honors course with a small enrollment is the enhanced ability to engage in in-class discussion. Participation in these discussions and small group activities, either in person or online, will be included in the course grade. Your ability to participate in discussions will be greatly enhanced if you complete the reading assignments from the textbook before each class meeting. Be prepared to ask questions you have from your reading, and answer questions posed to the class during lectures.

## Textbook

The text book for the course is Foundations of Astrophysics by Barbara Ryden and Bradley M. Peterson. We will be using the first 12 chapters of the book for this course, covering historical astronomy, astronomical instrumentation, an introduction to the physics of astrophysics and our solar system.

It is expected that you will read the appropriate chapter in preparation for that week's lectures, beginning with Chapter 1 by August 31st.

[Cambridge University Press](#)



























































## Special Guidance for the COVID-19 pandemic

TBD

## Students with disability

The University of Tennessee, Knoxville, is committed to providing an inclusive learning environment for all students. If you anticipate or experience a barrier in this course due to a chronic health condition, a learning, hearing, neurological, mental health, vision, physical, or other kind of disability, or a temporary injury, you are encouraged to contact Student Disability Services (SDS) at 865-974-6087 or [sds@utk.edu](mailto:sds@utk.edu).

## Course Summary:

Date	Details	Due
Fri Aug 26, 2022	 No Class	12am
Wed Aug 31, 2022	 Reading_#1	due by 11:30am
	 Homework_#0	due by 12:20pm
Fri Sep 9, 2022	 Reading_#2	due by 11:30am
	 Homework_#1	due by 11:45pm
Tue Sep 13, 2022	 Fall_2020_Astronomy_217_Honors: Intro Astronomy	7:30pm to 9:30pm
Wed Sep 14, 2022	 Fall_2020_Astronomy_217_Wednesday_Lab_2b_(Week_2_-_9/9/20)	7:30pm to 9:30pm
Fri Sep 16, 2022	 Reading_#3	due by 11:30am
	 Homework_#2	due by 11:45pm
Tue Sep 20, 2022	 Astronomy_217_Tuesday_Lab	7:30pm to 9:30pm
Wed Sep 21, 2022	 Astronomy_217_Wednesday_Lab	7:30pm to 9:30pm
Fri Sep 23, 2022	 Reading_#4	due by 11:45am
	 Homework_#3	due by 11:45pm
Tue Sep 27, 2022	 Astronomy_217_Tuesday_Lab	7:30pm to 9:30pm
Wed Sep 28, 2022	 Astronomy_217_Wednesday_Lab	7:30pm to 9:30pm
Fri Sep 30, 2022	 Reading_#5	due by 11:45am
	 Homework_#4	due by 11:45pm
Tue Oct 4, 2022	 Astronomy_217_Tuesday_Lab	7:30pm to 9:30pm
Wed Oct 5, 2022	 Astronomy_217_Wednesday_Lab	7:30pm to 9:30pm
Mon Oct 10, 2022	 Exam_1	due by 12:20pm
Tue Oct 11, 2022	 Astronomy_217_Tuesday_Lab	7:30pm to 9:30pm
Wed Oct 12, 2022	 Astronomy_217_Wednesday_Lab	7:30pm to 9:30pm
Fri Oct 14, 2022	 Reading_#6	due by 11:45am
	 Homework_#5	due by 11:45pm
Tue Oct 18, 2022	 Astronomy_217_Tuesday_Lab	7:30pm to 9:30pm
Wed Oct 19, 2022	 Astronomy_217_Wednesday_Lab	7:30pm to 9:30pm
Fri Oct 21, 2022	 Reading_#7	due by 11:45am
	 Homework_#6	due by 11:45pm
Tue Oct 25, 2022	 Astronomy_217_Tuesday_Lab	7:30pm to 9:30pm
Wed Oct 26, 2022	 Astronomy_217_Wednesday_Lab	7:30pm to 9:30pm
Fri Oct 28, 2022	 Reading_#8	due by 11:45am
	 Homework_#7	due by 11:45pm
Tue Nov 1, 2022	 Astronomy_217_Tuesday_Lab	7:30pm to 9:30pm
Wed Nov 2, 2022	 Astronomy_217_Wednesday_Lab	7:30pm to 9:30pm
Fri Nov 4, 2022	 Exam_2	due by 11:30am
Mon Nov 7, 2022	 Reading_#9	due by 11:45am
	 Homework_#8	due by 11:45pm
Tue Nov 8, 2022	 Astronomy_217_Tuesday_Lab	7:30pm to 9:30pm
Wed Nov 9, 2022	 Astronomy_217_Wednesday_Lab	7:30pm to 9:30pm
Mon Nov 14, 2022	 Reading_#10	due by 11:45am
	 Homework_#9	due by 11:45pm
Tue Nov 15, 2022	 Astronomy_217_Tuesday_Lab	7:30pm to 9:30pm
Wed Nov 16, 2022	 Astronomy_217_Wednesday_Lab	7:30pm to 9:30pm
Mon Nov 21, 2022	 Reading_#11	due by 11:45am
	 Homework_#10	due by 11:45pm
Tue Nov 22, 2022	 Astronomy_217_Tuesday_Lab	7:30pm to 9:30pm
Wed Nov 23, 2022	 Astronomy_217_Wednesday_Lab	7:30pm to 9:30pm
Tue Nov 29, 2022	 Astronomy_217_Tuesday_Lab	7:30pm to 9:30pm
Wed Nov 30, 2022	 Astronomy_217_Wednesday_Lab	7:30pm to 9:30pm
Fri Dec 2, 2022	 Reading_#12	due by 11:45am
	 Homework_#11	due by 11:45pm
Tue Dec 6, 2022	 Astronomy_217_Tuesday_Lab	7:30pm to 9:30pm
Wed Dec 7, 2022	 Astronomy_217_Wednesday_Lab	7:30pm to 9:30pm
	 Homework_#12	due by 11:45pm
Wed Dec 14, 2022	 Final_Exam	due by 12:15pm
	 Boardwork	
	 Classroom_Participation	
	 Laboratory	

**Assignments are weighted by group:**

Group	Weight
Assignments	0%
Assignments	0%
Reading	0%
Homework	15%
Test	50%
Laboratory	25%
Participation	10%
<b>Total</b>	<b>100%</b>

< August 2022 >

31	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	1	2	3
4	5	6	7	8	9	10