

AST 235. Astronomy: Stars, Galaxies, and Cosmology - Fall 2018

Tentative Lecture Schedule, week by week (plus helpful dates to remember)

| Date | Chapter | Topic | Homework |
|--------|-----------------|---|--|
| Aug 14 | | Lecture 1. Introduction to the Course | Tutorial assigned* |
| Aug 16 | 1.1-1.4 | Lec. 2. Modern View of the Universe | Ch 1 assigned |
| Aug 21 | 2.1-2.4 | Lec. 3. What We See in the Sky | Tutorial due** |
| | | Lec. 4. Half class in the UNCG | Ch 1 due** |
| Aug 23 | 2.1-2.4 | Planetarium: Earth's Orbit and its Effects | Ch 2 assigned, Lab 1 assigned |
| Aug 28 | 3.1-3.3 | Lec. 5. History of Astronomy, The Scientific Method | |
| Aug 30 | 3.4, 4.1-4.2 | Lec. 6. Basic Laws of Physics, I. | Lab 1 due, Ch 2 due 9/1 Ch 3 assigned |
| Sep 4 | 4.3-4.4 | Lec. 7. Basic Laws of Physics, II. | Ch 4 assigned |
| Sep 6 | 5.1-5.2 | Lec. 8. Properties of Light | Ch 3 due |
| | | | Lab 2 assigned |
| Sep 11 | 5.3-5.4 | Lec. 9. Properties of Matter | Ch 5 assigned No new assignments today; hurricane |
| Sep 13 | | <i>Canceled; Hurricane Florence</i> | <i>Note most due dates shifted to after midterm</i> |
| Sep 18 | 6.1-6.3 | Lec. 10. Properties of matter recap, Astronomical telescopes and types of observation | Lab 2 assigned Ch 5 assigned Ch 6 assigned |
| Sep 20 | | Midterm Review, Ch. 1-6, 14.1-14.2 | Lab 3 assigned Ch 4 due |
| Sep 25 | 1-6 | Mid-Term Exam 1 | |
| Sep 27 | 14.1-14.2 | Lec. 11. The Sun: Internal Structure and Energy Source | Ch 5 due, Lab 2 due |
| Oct 2 | 14.3, 15.1-15.2 | Lec. 12. Solar Activity Properties of stars | Ch 14 assigned Ch 6 due, Lab 3 due |

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| Oct 4 | 15.1-15.2 | Lec. 13. Exam discussion, Properties of Stars | Ch 15 assigned, Lab 4 assigned |
| Oct 9 | --- | Fall Break | ---- |
| Oct 11 | 15.3, 16.1 | Lec. 14. Properties of Stars, Star clusters, Star Formation | Ch 14 due on Monday, 10/15 |
| Oct 16 | 16 | Lec. 15. Star formation/birth of stars | Ch 16 assigned |
| Oct 18 | 17.1-17.3 | Lec 16. Stellar Life Cycles | Ch 15 due, Lab 4 due, Ch 17 assigned |
| Oct 23 | 18 | Lec 17. Death of Stars | Ch 16 due Ch 18 assigned |
| Oct 25 | | Review for midterm 2: 14-18 | Ch 17 due |
| Oct 30 | 14-18 | Mid-Term Exam 2 | |
| Nov 1 | 19 | Lec. 18. The Milky Way Galaxy | Ch 18 due Ch 19 assigned, Lab 5 assigned |
| Nov 6 | 20 | Lec. 19. Hubble's Law and distance scales in the universe | Ch 20 assigned |
| Nov 8 | 21 | Lec. 20. The Variety of Galaxies | Ch 19 due, Lab 5 due Lab 6 assigned |
| Nov 13 | 22 | Lec. 21. The Birth of the Universe | Ch 20 due Ch 22-23 assigned |
| Nov 15 | 23 | Lec. 22. Dark Matter and Dark Energy | Lab 6 due |
| Nov 20 | 13 (in e-textbook), 24 | Lec. 23. Exoplanets, Life in the Universe | Ch 22-23 due Ch 13 assigned |
| Nov 22 | | Nov. 21-25: Thanksgiving break, woot! | |
| Nov 27 | 1-6, 13-24 | Review for final exam: mostly covering Ch. 13, 19-24, some 1-6 content will appear | Ch 13 due |
| Dec 4 | 1-6, 13-24 | Final Exam (12:00 - 3:00 p.m.) | |

*assigned = available on MasteringAstronomy at 11:59am
**left open for full credit until the end of the semester.
No homework due on days of midterms; check lecture schedule, doing homework early may be good exam preparation!

Grading Scale

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| A+ | ≥96.1% | B+ | 86.1-89.0% | C+ | 76.1-79.0% | D+ | 66.1-69.0% |
| A | 92.1-96.0% | B | 82.1-86.0% | C | 72.1-76.0% | D | 63.1-66.0% |
| A- | 89.1-92.0% | B- | 79.1-82.0% | C- | 69.1-72.0% | D- | 60.1-63.0% |

F ≤60.0%