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

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

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| **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\*\* |
| Aug 23 | 2.1-2.4 | Lec. 4. Half class in the UNCG Planetarium: Earth's Orbit and its Effects | Ch 1 due\*\*  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 |
| Sep 11 | 5.3-5.4 | Lec. 9. Properties of Matter | ~~Lab 2 assigned~~  ~~Ch 5 assigned~~  No new assignments today; hurricane |
| *Sep 13* |  | *Canceled; Hurricane Florence* | *Note most due dates shifted to after midterm* |
| 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 |
| 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.)** |  |
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| \*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%