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

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

|  |  |  |
| --- | --- | --- |
| Date | Chapter | Topic |
| Aug 14 |  | Introduction to the Course |
| Aug 16 | 1.1-1.4 | Modern View of the Universe |
|  |  | *August 20 – last day to add/withdraw* |
| Aug 21 | 2.1-2.4 | What We See in the Sky |
| Aug 23 | 2.1-2.4 | Half class in the UNCG Planetarium: Earth's Orbit and its Effects |
| Aug 28 | 3.1-3.4 | History of Astronomy, The Scientific Method |
| Aug 30 | 4.1-4.3 | Basic Laws of Physics, I. |
| Sep 4 | 4.1-4.4 | Basic Laws of Physics, II. |
| Sep 6 | 5.1-5.2 | Properties of Light |
|  |  | *Sep. 7: Last day to apply for December graduation* |
| Sep 11 | 5.3-5.4 | Properties of Matter |
| Sep 13 | 6.1-6.3 | Astronomical Telescopes and Types of Observation |
| Sep 18 | 14.1-14.2 | The Sun: Internal Structure and Energy Source |
| Sep 20 | 14.3 | Solar Activity |
| **Sep 25** | **1-6, 14** | **Mid-Term Exam 1** |
| Sep 27 | 15.1-15.2 | Properties of Stars |
| Oct 2 | 15.3 | Clusters of Stars |
| Oct 4 | 16 | Star Formation |
|  |  | *Oct. 5: Last day to withdraw without WF grade* |
|  |  | *Oct. 9: Fall break, woot!* |
| Oct 11 | 17 | Stellar Life Cycles: Low-Mass Stars |
| Oct 16 | 17 | Stellar Life Cycles: High-Mass Stars |
| Oct 18 | 18 | Death of Stars |
| Oct 23 | 19 | The Milky Way Galaxy |
| **Oct 25** | **14-19** | **Mid-Term Exam 2** |
| Oct 30 | 20 | Distance Scale in the Universe |
| Nov 1 | 20 | Hubble's Law |
| Nov 6 | 21 | The Variety of Galaxies |
| Nov 8 | 22 | Dark Matter and Dark Energy |
| Nov 13 | 23 | The Big Bang Theory |
| Nov 15 | 13 | Planets found around other Stars |
| Nov 20 | 24 | Life in the Universe |
|  |  | *Nov. 21-25: Thanksgiving break, woot!* |
| Nov 27 | 1-6, 13-24 | Course overview |
| **Dec 4** | **1-6, 13-24** | **Final Exam (12:00 - 3:00 p.m.)** |

## 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%