

PHY206 Exploring the Universe Course Schedule

The course will cover the following topics. The test dates are set in stone while the course content may shift around them.

Day	Date	Topic	Corresponding Book Units
Monday	1/24	Introduction	
Thursday	1/27	1. Light	Unit 21.1 Light, Matter, and Energy Unit 22 The Electromagnetic Spectrum
Monday	1/31	2. Light	Unit 23 Thermal Radiation Unit 21.3-5 Light, Matter, and Energy Unit 24 Atomic Spectra: Identifying Atoms by Their Light
Thursday	2/3	3. Light, The Sun	Unit 25 The Doppler Shift Unit 49 The Sun, Our Star Unit 50 The Sun's Source of Power
Monday	2/7	4. Stars	Unit 55 The Temperatures and Compositions of Stars Unit 54 Light and Distance Unit 52 Surveying the Stars
Thursday	2/10	5. Stars	Unit 52 Surveying the Stars Unit 56 The Masses of Orbiting Stars Unit 57 The Sizes of Stars Unit 58 The H-R Diagram
Monday	2/14	6. Stars	Unit 58 The H-R Diagram
Thursday	2/17	Test 1	
Monday	2/21	7. Stellar Evolution	Unit 59 Overview of Stellar Evolution Unit 60 Star Formation
Thursday	2/24	8. Stellar Evolution	Unit 61 Main-Sequence Stars Unit 62 Giant Stars Unit 63 Variable Stars Unit 64 Mass Loss and Death of Low-Mass Stars
Monday	2/28	9. Stellar Deaths	Unit 65 Exploding White Dwarfs Unit 66 Old Age and Death of Massive Stars
Thursday	3/3	10. Stellar Deaths	Unit 66 Old Age and Death of Massive Stars Unit 67 Neutron Stars Unit 68 Black Holes
Monday	3/7	11. Stellar Deaths: Black holes	Unit 68 Black Holes
Thursday	3/10	12. Star Clusters	Unit 69 Star Clusters
Monday	3/14	Test 2	
Thursday	3/17	13. The Milky Way	Unit 70 Discovering the Milky Way Unit 71 Stars of the Milky Way
Monday	3/21	<i>Spring Break - no class</i>	
Thursday	3/24	<i>Spring Break - no class</i>	
Monday	3/28	14. The Milky Way	Unit 72 Gas and Dust in the Milky Way Unit 73 Mass and Motions in the Milky Way
Thursday	3/31	15. Galaxies	Unit 74 A Universe of Galaxies Unit 75 Types of Galaxies

Monday	4/4	16. Galaxies	Unit 75 Types of Galaxies Unit 76 Galaxy Clustering
Thursday	4/7	17. Galaxies	Unit 76 Galaxy Clustering Unit 77 Active Galactic Nuclei
Monday	4/11	Test 3	
Thursday	4/14	18. Dark Matter	Unit 73 Mass and Motions in the Milky Way Unit 78 Dark Matter
Monday	4/18	<i>Passover – no class</i>	
Thursday	4/21	19. Cosmology	Unit 79 Cosmology Unit 80 The Edges of the Universe
Monday	4/25	20. Cosmology	Unit 80 The Edges of the Universe Unit 81 The Beginnings of the Universe
Thursday	4/28	21. Cosmology	Unit 82 The Fate of the Universe
Monday	5/2	Test 4	
Thursday	5/5	22. Astrobiology and Life	Unit 83 Astrobiology Unit 84 The Search for Life Elsewhere Unit 34 Other Planetary Systems
Monday	5/9	Review	
Thursday	5/19	Final Exam	10:15am - 12:15pm