

# Course Schedule – PHY 101 01

Fall 2021

- Our course is broken down into the 16 weeks of the semester plus exam week.
- Each week's content will 'open' on Mondays at 12 AM.
- For each week, all assignments are due on Thursdays at 11:55 PM or Sundays at 11:55 PM.
- This schedule is subject to change.

Week Number	Week Dates	Topics, Readings, Activities	Assignments Due
1	8/23 - 8/29	<b>Foundations of Astronomy</b> <ul style="list-style-type: none"> <li>• Discussion of reading questions</li> <li>• Large group problem solving: orbital motion and measuring distance</li> </ul>	<ul style="list-style-type: none"> <li>• Quick Write</li> <li>• Project: Topic Exploration</li> <li>• Chapter 1 Quiz</li> </ul>
2	8/30 - 9/05	<b>History of Astronomy</b> <ul style="list-style-type: none"> <li>• Small group problem solving: Newton's Laws and Laws of Planetary Motion</li> </ul>	<ul style="list-style-type: none"> <li>• History Prior Knowledge Assignment</li> <li>• Chapter 2 Quiz</li> </ul>
3	9/06 - 9/12 Labor Day, 9/06	<b>Radiation; Spectroscopy; Telescopes</b> <ul style="list-style-type: none"> <li>• Demonstration: Emission and absorption spectra</li> <li>• Large group problem solving: Telescope optics</li> </ul>	<ul style="list-style-type: none"> <li>• Discussion Reflection</li> <li>• Radiation Assignment</li> <li>• Chapters 3, 4, 5 Quiz</li> </ul>
4	9/13 - 9/19 Last day to drop class without record, 9/13	<b>Stars</b> <ul style="list-style-type: none"> <li>• Small group problem solving: HR Diagrams</li> <li>• Individual work: Calculating stellar masses &amp; temperatures</li> </ul>	<ul style="list-style-type: none"> <li>• Sun Observation Activity</li> <li>• Project: Further Exploration</li> <li>• Chapters 16, 17 Quiz</li> </ul>
5	9/20 - 9/26	<b>Interstellar Medium; Star Formation</b> <ul style="list-style-type: none"> <li>• Group Work: Mapping differences between nebulae</li> </ul>	<ul style="list-style-type: none"> <li>• Research LibGuide &amp; Quiz</li> <li>• Finalize Group Work</li> <li>• Chapters 18, 19 Quiz</li> </ul>
6	9/27 - 10/03	<b>Stellar Evolution; Supernovae</b> <ul style="list-style-type: none"> <li>• Game: Pin the tail on the HR Diagram</li> </ul>	<ul style="list-style-type: none"> <li>• Nebular Bracket Activity</li> <li>• Project: Finding Research</li> <li>• Chapters 20, 21 Quiz</li> </ul>
7	10/04 - 10/10 Midterm Break, 10/7 & 10/8	<b>Neutron Stars &amp; Black Holes</b> <ul style="list-style-type: none"> <li>• Discussion: What the heck is relativity?</li> <li>• <i>Project Hail Mary</i> problem solving</li> </ul>	<ul style="list-style-type: none"> <li>• Discussion Reflection</li> <li>• Chapter 22 Quiz</li> </ul>
8	10/11 - 10/17	<b>Midterm Review</b> <ul style="list-style-type: none"> <li>• Study Guide Creation</li> <li>• Review Game</li> </ul>	<ul style="list-style-type: none"> <li>• Midterm</li> </ul>

9	10/18 - 10/24	<b>Galaxies</b> <ul style="list-style-type: none"> <li>• Small group problem solving: Redshift and blueshift</li> </ul>	<ul style="list-style-type: none"> <li>• Project: Finding Research</li> <li>• Chapters 23, 24, 25 Quiz</li> </ul>
10	10/25 - 10/31	<b>Solar System</b> <ul style="list-style-type: none"> <li>• Mini Presentations: Spacecraft Exploration</li> </ul>	<ul style="list-style-type: none"> <li>• Mini Presentations</li> <li>• Project: Intro Paragraph</li> <li>• Chapter 6 Quiz</li> </ul>
11	11/01 - 11/07	<b>Earth; Moon; Mercury</b> <ul style="list-style-type: none"> <li>• Discussion: Satellite takeover &amp; space policy</li> <li>• Kerbal Space Program Activity</li> </ul>	<ul style="list-style-type: none"> <li>• Discussion Reflection</li> <li>• Project: Body Outline</li> <li>• Chapters 7, 8 Quiz</li> </ul>
12	11/08 - 11/14	<b>Mars</b> <ul style="list-style-type: none"> <li>• Discussion: Mars Exploration</li> <li>• <i>The Martian</i> Problem Solving</li> </ul>	<ul style="list-style-type: none"> <li>• Discussion Reflection</li> <li>• Project: Revisions</li> <li>• Chapter 10 Quiz</li> </ul>
13	11/15 – 11/21 Last day to drop with a W, 11/15	<b>Jupiter; Saturn</b> <ul style="list-style-type: none"> <li>• Game: Moon Identification</li> </ul>	<ul style="list-style-type: none"> <li>• Project: Body 1<sup>st</sup> draft</li> <li>• Chapters 11, 12 Quiz</li> </ul>
14	11/22 – 11/28 Thanksgiving Break, 11/24 – 11/26	<b>Solar System Debris; Planet Formation</b> <ul style="list-style-type: none"> <li>• Small group problem solving: orbital periods</li> </ul>	<ul style="list-style-type: none"> <li>• Discussion Reflection</li> <li>• Project: Plan Presentation</li> <li>• Chapters 14, 15 Quiz</li> </ul>
15	11/29 – 12/05	<b>Early Universe; Cosmology; Life</b> <ul style="list-style-type: none"> <li>• Project Presentations</li> </ul>	<ul style="list-style-type: none"> <li>• Project: Full Rough Draft</li> <li>• Chapters 26, 27, 28 Quiz</li> </ul>
16	12/06 – 12/12 Feast of Immaculate Conception, 12/8	<b>Wrapping Up</b> <ul style="list-style-type: none"> <li>• Final Exam Review</li> <li>• Project Presentations</li> </ul>	<ul style="list-style-type: none"> <li>• Project: Submit Paper</li> <li>• Chapter 9 Quiz</li> </ul>
Exam Week	Wednesday, Dec. 14 from 2:00 – 4:15 PM	N/A	<ul style="list-style-type: none"> <li>• Final Exam</li> </ul>