**Astro 105 Schedule (subject to change: weather, covid, etc.)**

Daytime: 10:30 to 11:45 on Tuesdays and Thursdays in LE 101

**IUPUI Physics Department**

<table>
<thead>
<tr>
<th>Week of</th>
<th>Topic</th>
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<tbody>
<tr>
<td>Mon Jan 9</td>
<td>Introduction, Scientific Notation</td>
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<tr>
<td></td>
<td>The Sun</td>
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<td>Temperature Scales</td>
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<tr>
<td>Mon Jan 16</td>
<td>Quiz 1, Structure of Matter</td>
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<td></td>
<td>Nuclear Fusion</td>
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<td>Stellar Dynamics, Neutrinos</td>
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<td>Mon Jan 23</td>
<td>Quiz 2, Physics of Light</td>
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<td>Spectra</td>
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<td>Doppler Effect</td>
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<tr>
<td>Mon Jan 30</td>
<td>Quiz 3, Intro to Stars</td>
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<td>Stellar Spectra</td>
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<td>Stellar Mass and Binary Systems</td>
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<td>Mon Feb 6</td>
<td>Quiz 4, Absolute Magnitude</td>
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<td>Mass-Luminosity Relation</td>
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<td>H-R Diagrams</td>
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<td>Mon Feb 13</td>
<td><strong>EXAM 1</strong>, Tue (Feb 14), covers all material (bring pencil)</td>
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<tr>
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<td>Stellar Evolution, Main-Sequence</td>
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<td>Cepheids, Giants</td>
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<td>Mon Feb 20</td>
<td>Quiz 5, Death of Stars</td>
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<td>White Dwarfs, Neutron Stars</td>
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<td>Supernovae</td>
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Instructor  Brian Woodahl
E-Mail  bwoodahl@iupui.edu
Office  LD 156-S, 278-9244

Exam and Quiz dates are subject to change
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<thead>
<tr>
<th>Week of</th>
<th>Topic</th>
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<tbody>
<tr>
<td>Mon Feb 27</td>
<td>Quiz 6, Black Holes, Worm Holes</td>
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<tr>
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<td>General Relativity / Time Travel</td>
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<tr>
<td>Mon Mar 6</td>
<td>Quiz 7, Milky Way Galaxy</td>
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<td>Galactic Dynamics</td>
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<td>Mon Mar 20</td>
<td>Quiz 8, Other Galaxies</td>
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<td>Clusters, Superclusters, Dark Matter</td>
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<td>Hubble's Law, The Hubble Constant</td>
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<tr>
<td>Mon Mar 27</td>
<td><strong>EXAM 2</strong>, Tue (Mar 28), covers all material following Exam 1</td>
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<td>Quasars, Active Galaxies</td>
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<td>Supermassive Black Holes, Bursters</td>
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<td>Mon Apr 3</td>
<td>Quiz 9, Cosmology</td>
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<td>Big Bang Theory, Inflation</td>
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<td>Mon Apr 10</td>
<td>Quiz 10, High-Energy Physics</td>
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<td>Reductionism, HyperSpace</td>
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<td>String Theory, Fundamental Constants of the Universe</td>
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<td>Mon Apr 17</td>
<td>Fate of the Universe</td>
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<td>Dark Energy</td>
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<td>Mon Apr 24</td>
<td>Life in the Universe</td>
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<td>Looking for E.T.’s</td>
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<td>The Drake Equation</td>
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<td>Mon May 1</td>
<td><strong>FINAL EXAM</strong>, Thursday (May 4) 10:30 AM to 11:45 PM</td>
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<td>Semi-Comprehensive -- see Study Guide (bring pencil)</td>
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