

**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**

**Spring 2023**

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Exam and Quiz dates are subject to change

<i>Week of</i>	<i>Topic</i>
Mon Jan 9	Introduction, Scientific Notation The Sun Temperature Scales
Mon Jan 16	Quiz 1, Structure of Matter Nuclear Fusion Stellar Dynamics, Neutrinos
Mon Jan 23	Quiz 2, Physics of Light Spectra Doppler Effect
Mon Jan 30	Quiz 3, Intro to Stars Stellar Spectra Stellar Mass and Binary Systems
Mon Feb 6	Quiz 4, Absolute Magnitude Mass-Luminosity Relation H-R Diagrams
Mon Feb 13	<b>EXAM 1</b> , Tue (Feb 14), covers all material (bring pencil) Stellar Evolution, Main-Sequence Cepheids, Giants
Mon Feb 20	Quiz 5, Death of Stars White Dwarfs, Neutron Stars Supernovae

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