

Astro 105 Schedule (*dates subject to change*)

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

IUPUI Physics Department

Spring 2020

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Exam and Quiz dates are subject to change

| <i>Week of</i> | <i>Topic</i> |
|----------------|--|
| Mon Jan 13 | Introduction, Scientific Notation The Sun Temperature Scales |
| Mon Jan 20 | Quiz 1, Structure of Matter Nuclear Fusion Stellar Dynamics, Neutrinos |
| Mon Jan 27 | Quiz 2, Physics of Light Spectra Doppler Effect |
| Mon Feb 3 | Quiz 3, Intro to Stars Stellar Spectra Stellar Mass and Binary Systems |
| Mon Feb 10 | Quiz 4, Absolute Magnitude Mass-Luminosity Relation H-R Diagrams |
| Mon Feb 17 | EXAM 1 , Tue (Feb 18), covers all material (bring pencil) Stellar Evolution, Main-Sequence Cepheids, Giants |
| Mon Feb 24 | Quiz 5, Death of Stars White Dwarfs, Neutron Stars Supernovae |

| <i>Week of</i> | <i>Topic</i> |
|----------------|--|
| Mon Mar 2 | Quiz 6, Black Holes, Worm Holes General Relativity / Time Travel |
| Mon Mar 9 | Quiz 7, Milky Way Galaxy Galactic Dynamics |
| Mon Mar 23 | Quiz 8, Other Galaxies Clusters, Superclusters, Dark Matter Hubble's Law, The Hubble Constant |
| Mon Mar 30 | EXAM 2 , Tue (Mar 31), covers all material following Exam 1 Quasars, Active Galaxies Supermassive Black Holes, Bursters |
| Mon Apr 6 | Quiz 9, Cosmology Big Bang Theory, Inflation |
| Mon Apr 13 | Quiz 10, High-Energy Physics Reductionism, HyperSpace String Theory, Fundamental Constants of the Universe |
| Mon Apr 20 | Quiz 11, Fate of the Universe Dark Energy |
| Mon Apr 27 | Quiz 12, Life in the Universe Looking for E.T's The Drake Equation |
| Mon May 4 | FINAL EXAM , Thursday (May 7) 10:30 AM to 11:45 PM Semi-Comprehensive -- see Study Guide (bring pencil) |