

Astro 105 MW Schedule (*online version*)

IU Indianapolis Physics Department

Fall 2025

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Exam dates are subject to change

<i>Week of</i>	<i>Topics</i>
Mon Aug 25	Introduction, Scientific Notation The Sun Temperature Scales
Mon Sep 1	Structure of Matter Nuclear Fusion Stellar Dynamics, Neutrinos
Mon Sep 8	Physics of Light Spectra Doppler Effect
Mon Sep 15	Intro to Stars Stellar Spectra Stellar Mass and Binary Systems
Mon Sep 22	Absolute Magnitude Mass-Luminosity Relation H-R Diagrams
Mon Sep 29	EXAM 1 , covers all material Stellar Evolution, Main-Sequence Cepheids, Giants
Mon Oct 6	Death of Stars White Dwarfs, Neutron Stars Supernovae

<i>Week of</i>	<i>Topics</i>
Mon Oct 13	Black Holes, Worm Holes General Relativity / Time Travel
Mon Oct 20	Milky Way Galaxy Galactic Dynamics
Mon Oct 27	Other Galaxies, Types of Galaxies Clusters, Superclusters, Dark Matter Hubble's Law, The Hubble Constant
Mon Nov 3	EXAM 2 , covers all material after Exam 1 Quasars, Active Galaxies Supermassive Black Holes, Bursters
Mon Nov 10	Cosmology Big Bang Theory, Inflation
Mon Nov 17	High-Energy Physics Reductionism, HyperSpace String Theory
Mon Nov 24	Fundamental Constants, Thanksgiving Break
Mon Dec 1	Fate of the Universe Dark Energy
Mon Dec 8	EXAM 3 , covers all material after Exam 2 (No Final, course ends after Exam 3)