Astro 105 Exam II Study Guide

Topics (not exhaustive, but covers the most important material)

Chandrasekhar Limit

Dark matter

Dwarf stars (red, white, brown)

Edwin Hubble

Galaxies

Galaxy shapes (spiral, barred, etc.)

Giant and Supergiant stars

Globular clusters

Interstellar medium (know details)

Interstellar reddening

Milky Way (sizes, number of stars, etc.)

Neutron stars (data, size limits, formation, etc.)

No-Hair theorem

Nova

Nuclear bulge (center)

Pauli Exclusion Principle

Physics of falling into a black hole

Post-Main-Sequence events (shell fusion, flashes, etc.)

Postulates of Special and General Relativity

Protostars, Pre-Main-Sequence stars, Main-Sequence stars

Pulsars

Recombination photons

Relativity

Roche Limit

Rotation curves (Keplerian, solid-body, etc.)

Roy Kerr

Schwarzschild's contributions

Shell fusion reactions and products

Spin-Flip radiation of hydrogen

Star characterizations based on masses

Star formation mechanism

Stellar lifetimes

Stephen Hawking

Supernova (Type II and Type Ia)

Superstrings

Synchrotron radiation

Temperatures for fusion reactions

Variable stars

Worm holes

X-Ray Bursters