Astro 100 Exam I Study Guide

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

Acceleration
Asteroids
Atomic Number
Atoms
Brahe
Chemical Reactions, Nuclear Reactions
Comets
Comparative Planetology
Copernicus
Densities of Planets and Sun
Distance, Velocity, Time
Distances of Planets from Sun (in AU)
Doppler Effect
Dwarf Planets
Egyptian and Julian Calendars
Einstein, matter and energy equivalence
Electrons
Energy, forms and conservation
Equinoxes and Solstices
Features of Planets
Fluorescence
Frequency, Wavelength, and Speed of Light (terms and relationship)
Fundamental Particles
Galileo
Geocentric Model
Greenhouse Effect
Jovian Planets, Terrestrial Planets
Kepler, and his Laws
Kuiper Belt Objects
Light
Mass, Weight
Metric Unit Prefixes (centi, kilo, mega, etc.)
Molecules
Momentum
Months
Moon's Orbit Around Earth
Newton, and his Laws of Motion and Gravity
Number of Galaxies
Number of Stars in Visible Universe, in a Galaxy
Oort Cloud Objects

Orbit of a Planet around Sun (ecliptic plane, perihelion, aphelion)
Order of Magnitude Calculations
Parsec, AU, Light•year
Phases of Matter (common: solid, liquid, gas, and plasma)
Phases of Moon
Photons
Power
Protons, Neutrons
Ptolemaic Model
Quarks
Radius of Planets and Sun (in R_{earth})
Seasons on Earth
Spectra
Speed of Light
Strong Force, Electric Force, roles in binding atoms
Synchronous Rotation
Temperatures of Planets and Sun
Tidal Force, Tides
Wavelength Rule for Observations