

ASTRONOMY 305

Review for Exam II

How to Study

- Review your Assignments 4, 5, and 6.
- Make sure that you have read all of the chapters below (except perhaps the details in the constellation chapter of *Stars and Planets*).
- Review the key ideas listed below using your class notes and the two books. In your own words, write out the definitions or descriptions of the key ideas below. The glossary of each text may also help.

Text: Stars and Planets

Chapter 16 - Telescopes and Binoculars

- Galilean Telescope (a.k.a Refracting Telescope)
- Newtonian Telescope (a.k.a Reflecting Telescope)
- Schmidt-Cassegrain Telescope (a.k.a. Compound Telescope)
- Telescope Parts
- Magnification
- Light Gathering Power
- f/ratio
- Resolving Power and Dawe's Limit

Chapter 2 - A Tour of the Sky

- The Morning and Evening Star
- Doppler Shift
- Proper Motions
- Trigonometric Parallax
- light-year
- parsec
- absolute magnitude
- apparent magnitude

Chapter 3 - The Monthly Sky Maps

- The Magnitude Scale
- Be able to identify constellations visible during your night labs.

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Text: Practical Astronomy with your Calculator

Coordinate Systems

- Scan through sections 17-31. Equations will be provided during the exam. Focus on the sections we covered in class. Be able to convert between the coordinate systems below.
- Horizontal System
 - Altitude (a)
 - Azimuth (A)
- Equatorial System
 - Declination (δ)
 - Right Ascension (α)
 - Hour Angle (H)
- Ecliptic System
 - Ecliptic Latitude (β)
 - Ecliptic Longitude (λ)
- Galactic System
 - Galactic Latitude (b)
 - Galactic Longitude (l)