

Astro 101: Final exam topics / potential questions

NO NOTES are allowed. You need to bring a working red flashlight, your Planisphere, and your Astrolabe to the exam. The most effective way to study for the multiple-choice/short answer part of the final exam is to review all of the quizzes.

In addition to all of the topics from the Midterm Study Guide, concentrate on these areas:

- ASTROLABE:

Given a set position of the astrolabe (e.g. Spica setting) determine:

- Altitude, azimuth of any object.
- Date of sunrise, sunset, beginning or end of civil, nautical, astronomical twilight.
- Given the date, tell the (local solar) time.

- LATITUDE:

- Given zenith distance or altitude of the North Celestial, determine the latitude.
- Given zenith distance or altitude of the Celestial Equator (or object on the CE), determine the latitude.
- Given zenith distance or altitude of an object whose declination is known, determine the latitude.
- Given latitude, determine one of the following: ZD of CE, Alt of CE, ZD of NCP, Alt of NCP.

- LONGITUDE:

- Given two of the following: longitude, Local Mean Time (LMT), Greenwich Mean Time (GMT), determine the third.
- Be able to represent LMT, GMT, Sun's position, or longitude on a generic longitude diagram.

- Know how to convert from East Lansing Local Time to Eastern Standard Time.