EAS 180  
(Exam 4 Review Sheet)  
(Chapters 14-18)

**MULTIPLE CHOICE QUESTIONS** (Approx. 40 questions)  
* All Material in Chapter’s 14-18  
* Lecture notes  
  * Milky Way Galaxy Characteristics  
  * Measuring Distant Objects  
  * Dark Matter  
  * Types of Galaxies  
  * Galaxies Classifications  
  * Hubble’s Law  
  * Active Galaxies and Quasars  
  * Cosmology  
  * Olber’s Paradox  
  * Cosmic Evolution  
  * Drake’s Equation  
  * The Search for Extra Terrestrial Life

**MATCHING QUESTIONS** (Approx. 10 questions)  
*Galaxy Types and Classifications

**FILL IN THE BLANK QUESTIONS** (Approx. 10 questions)  
* Vocabulary  
  1) Vocab from back of chapters and lecture notes.

**POTENTIAL SHORT/ANSWER ESSAY QUESTIONS** (Approx. 3-5 questions)  
* Explain the difference between Cepheid variables and RR Lyrae  
* Name the different types of galaxies and know which ones contain old vs. young stars  
* Explain how a Quasar can give off so much energy  
* Know 5 properties of a central engine of an active galaxy  
* Explain the 2 futures of our existing galaxy  
* Know the 7 stages in cosmic history of life  
* Explain what the earth probably looked like in earth history, pre-life  
* Explain what Drake’s equation means, and how do we interpret the results  
* Be able to do NSA angle problems from the "Earth Sun Relationships Lab"