**ES202 Text Reading Review Questions**

***Chapter 1 - Introduction***

Review read the textbook posted on the class web site at the following URL:

<https://people.wou.edu/~taylors/g202/text/Ch1_Introduction.pdf>

Answer the following questions, include sketches, equations or cut-and-paste images to support your answer, as required. Use your favorite internet search tools (google, Wikipedia, etc.) to augment your answers as needed.

1. Briefly explain the difference between the geocentric and heliocentric models of the Earth’s solar system.

2. How are the planets of the Earth’s solar system classified. What is the physical difference between the terrestrial planets and Jovian planets. List examples each.

3. List the three fundamental subatomic particles that comprise atoms and how they differ from one another.

4. Define the terms “force” and “energy” in the context of physics applications.

5. Draw a sketch or provide image capture of the primary stages involved in the nebular hypothesis of planetary formation in our solar system.

6. List the thre primary methods of heat of transfer, and draw sketches illustrating the processes involved with each.

7. List the four primary subsystems or “spheres” of planet Earth.

8. True or False: the troposphere comprises the lowermost levels of the atmosphere.

9. What chemical compound is the hydrosphere primarily composed of.

10. What chemical compounds in the geosphere primarily composed of. Which elements are most abundant in the Earth Geosphere overall?

11. List the two primary heat energy sources that drive all processes on planet Earth.

12. List and briefly describe the four internal layers of the Earth’s Geosphere, with a description of their characteristics. Provide a sketch or image capture supporting your answer.

13. Bonus question: what is a “Moho”? and what is it’s significance?