**ES106 Video Exercise – Introduction to Earth Science NAME\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Part 1. Introduction to Earth System Science.** Watch the Introduction to Earth Science video on the class web site, located at the following URL:

<https://www.youtube.com/watch?v=N3EqcUNdIl8>

The video is about 7 minutes in duration, watch and answer the following review questions.

1. List the four fundamental spheres of the Earth System.
2. Describe and define the terms “reservoir” vs. “flux” in terms of Earth Systems science.
3. True or False: global glaciation results in global sea level rise.
4. List the major chemical components of the lower atmosphere, with percent compositions.
5. True or False: carbon dioxide content in the atmosphere has steadily increased over the past 50 years of Earth History.
6. True or False: the shells of marine organisms are comprised of the mineral calcite, which stores carbon dioxide in its crystal structure.
7. What is the primary process that transfers carbon dioxide from the atmosphere to the biosphere?
8. True or False: the atmosphere contains the highest amount of global carbon out of the four spheres.
9. True or False: the rocks of Earth in the Geosphere contain the highest amount of global carbon out of the four spheres.
10. List the three learning objectives of the video, and provide a brief comment on your understanding of the concepts.