**FYS207 Earth Corps Week 6 Soils Video Review Exercise Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Watch the class videos listed below, and answer the following review questions. Save your work, and upload answer sheet to FYS207 Canvas Course Shell in an Acrobat PDF or MS Word document format.

**Overview of Soil Development (~16 min)**

<http://youtu.be/T1-RGmqtFOI>

1. What is soil composed of?
2. True or False: weathering of the rocks of the Earth’s crust over geologic time result in soil formation at the Earth’s surface.
3. List the 5 soil forming factors.
4. Describe how topography or shape of the Earth’s surface affects soil type.
5. List and describe the 4 basic soil horizons that are presented in the video.
6. What are the three primary particle sizes of finer sediment that comprises soil.
7. Define soil porosity.
8. True or False: clay soils drain water better than sandy soils.
9. List three environmental degradation issues associated with poor soil management.

**Permaculture Soils Perspective (~12 min)** <https://www.youtube.com/watch?v=W4LZgtbfBlE&list=PLNdMkGYdEqOCvZ7qcgS3efKm26exq5E3K&index=41>

1. True or False: certified “soil nerds” wear glasses.
2. Why are pore spaces and openings important in soils?
3. What is the difference in size between Sand, silt and clay?
4. Of the five soil forming factors, which one is arguably the most important with respect to soil formation.
5. True or False: soils that form in humid environments will have the same appearance and composition as soils formed in a dry climate.
6. True or False: soil development rates are much higher in tropical climates as compared to arid environments.
7. True or False: soil develops on top of bedrock over geologic time.
8. What are the essential nutrients in the “nutrient pool”?
9. List the 4 steps in the soil nutrient cycle.