**ES322 – Key word / short answer review exercise**

**Geotechnical Investigation of the DeVolder Family Science Center Construction Site**

Read the Geotechnical Investigation Report for the WOU DeVolder Science C enter site, dated October 2011. Based on your reading, use web resources and available written resources to provide definitions/short explanations of the following terms. Use cut-and-paste graphics and drawings as needed to support your answer. Complete answers to the review questions using MS Word and embedded html / graphics as needed, based on your key word search. Provide a list of resources and references cited.

Geotechnical investigation

Seismic safety evaluation

Soil boring

Solid Stem Auger

Split Spoon Sampler

What are the site near-surface materials composed of?

At what depths are saturated groundwater conditions anticipated to exist?

Perched Groundwater

Standard penetration testing

Cascadia Subduction Zone

Crustal faulting

Seismic recurrence interval

What are the three closest faults to the WOU campus? And what maximum magnitude earthquakes could be associated with them.

How many geotechnical soil borings were completed to characterize the Science Center site? What is the range of total depths encountered in the soil borings?

Liquefaction

What is the potential for landslide hazard on the WOU campus?

Soil moisture content

Soil plasticity

Soil gradation

Native Alluvium

Willamette Silt

USCS Soil Classification

USCS Soil Class “CH”

USCS Soil Class “CL”

USCS Soil Class “ML”