**ES473 Environmental Geology Textbook Review Questions**

Instructions: visit the ES473 class web site and download a digital MS word document version of the text review questions. Review and read the relevant textbook chapter posted on the ES486 moodle site (moodle.wou.edu) and answer the following questions. Answers should be word-processed with MS Word using figures and pasted images from the text book or favorite internet resources. Your work should look complete and professional.

**Chapter 6 Landslides**

1. Define the following term s related to mass wasting (provide sketches or equations where required):
   1. Convex-Concave slopes (provide cross-sectional sketch)
   2. Angle of repose
   3. Driving vs. Resisting Forces
   4. Flow-Slide-Fall (define and provide sketches)
   5. Slump (provide sketch)
   6. Factor of safety (provide equation and explanation)
   7. Colluvium
   8. Creep
2. Discuss how climate and vegetation influence slope stability. Draw sketches to support your answer.
3. Define and compare the concepts of shear strength vs. shear stress.
4. How does groundwater influence slope stability, provide examples.
5. List and discuss the elements associated with landslide risk assessment and mitigation (loss prevention). Provide examples from case studies listed.
6. List three causes of land subsidence, provide examples.