**ESS 431 PRINCIPLES OF GLACIOLOGY**

**ESS 505 THE CRYOSPHERE**

**Lecture 18 – Glacial Erosion:** Abrasion, quarrying, subglacial fluvial processes, and chemical denudation

*Due Monday, December 3 2018, at start of class*

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| Ritter, D.F., 1986: *Process Geomorphology*, Chapter 10. |

1. Why do large glaciers tend to erode faster than small ones?
2. What are the signs of glacial abrasion?
3. What is glacial quarrying and what is the evidence for this process?
4. How does basal effective pressure affect quarrying rates?
5. How would you draw the flow lines along a long profile in a cirque glacier? Make sure you indicate where the ELA (equilibrium line altitude is).