HANDOUT

GEOMORPHIC PROCESSES

I. Internal (Endogenic) - internal to the Earth, driven by radioactive heat **A. Massive Crustal Rearrangement (Plate Tectonics) B. Diastrophism** (i.e. deformation of the Earth's crust)

1) Broad Warping
2) Folding
3) Faulting C.

Vulcanism

1) Extrusive
2) Intrusive

II. **External (Exogenic) -** external to the Earth; driven by insolation

A. **Weathering**

1) Physical/Mechanical
   a) Frost Action
   b) Salt Cracking
   c) Hydration
   d) Abrasion
   e) Pressure Release

2) Chemical
   Carbonation & Solution
   b) Oxidation
   c) Hydrolysis B.

Mass Wasting

1) Fast
   a) Rock Slides & Falls
   b) Landslides
      i) glides
      ii) slumps
   c) Avalanches
   d) Flows
      i) earth flow
      ii) debris/mudflow
      iii) lahar
2) Slow
   a) soil creep
   b) solifluction C

Erosion/Deposition

1) Fluvial - running water
2) Eolian - wind
3) Glacial - moving ice
4) Solution - ground water
5) Waves & Currents - oceans & lakes