Instructor: Dr. Ulrike Hardenbicker
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Where: CL 315 / CL 312
When: MW 13:30 - 14:45 p. m.

Grading:
- Term paper 25 % plus for 5 % presentation
- Project/research paper 25 % plus for 5 % presentation
- Poster project 15 %
- Midterm exam 25 % (Nov. 19)

Description:
The course is designed around a series of field techniques, research and lab exercises. We will study landforms and landscape development. Techniques for description, surveying, mapping, and interpretation of landforms will be introduced. This geography course emphasizes practical application of geomorphology to terrain analysis. Monitoring instruments for geomorphic processes have been advanced through computerization and automation. This class deals with the processing of field data sets and their interpretation. Field trips will include assignments that will introduce data collection, analysis, and their critical evaluation. (Field trips: Tentative Sept 29 and Oct. 6)

Tentative Schedule:

Topics
- Introduction: The nature and role of field research
- Slope hydrology and erosion process
- Measuring infiltration and aggregate stability
- Terrain analyses, Geomorphic Mapping
  - Field Observations,
- Field measurement Monitoring, Sampling and Mapping
- GPS application
- GPS, DEM
- Field research design and management
  1. slope stability
  2. watershed hydrology
  3. alluvial fans and soil erosion

Books

Journals:
Geomorphology; Earth Surface Processes and Landforms, etc.