

MORPH SYL 2001  
**GEOMORPHOLOGY – GEOL 151**  
**Paul Bierman 656-4411 203 Perkins Hall**  
pbierman@zoo.uvm.edu

**PRACTICUM**  
**12:20-2:15**  
**MONDAY**

**LABORATORY**  
**12:20-6:00**  
**WEDNESDAY**

**27-Aug**

**INTRODUCTION**

PowerPoint and PDF  
meet in room 200

**29-Aug**

**SURVEYING TECHNIQUES**

UVM Campus  
Intro lecture  
GPS practice  
Autolevel practice  
data reduction, UTM plotting  
meet in room 200

**3-Sep**

**NO CLASS**

LABOR DAY

**5-Sep**

**RIVER TRIP**

Winooski River  
meet in room 200  
(lab will run late)

**10-Sep**

**FLUVIAL PROCESSES AND LANDFORMS**

slide lecture and book discussion  
intro to river flow and instruments

have read McPhee, *Atchafalaya*  
meet in room 200

**12-Sep**

**FLOW GAUGING**

Huntington River

have read Leopold, *Water, Rivers and Creeks*  
meet in room 200

**17-Sep**

**FLOW DATA REDUCTION AND HIKE PREP**

local glacial history lecture  
use of barometers, thermometers, GPS  
meet in computer lab

**19-Sep**

**MT MANSFIELD HIKE**

hike up, hike down, take data  
meet in Room 200 (lab will run late)

**24-Sep**

**DATA REDUCTION, MANSFIELD**

local post glacial history lecture

have read Jennings et al., *Fans*  
meet in computer lab

**26-Sep**

**MILLER BROOK FAN AND GULLY**

field measurements  
4:30 required lecture, Tom Dunne  
meet in room 200

have read Kochel, *Humid Fans*

**1-Oct**

**GULLY DATA REDUCTION**

intro to soils

have read Summerfield, *Weathering*  
meet in room 200

**3-Oct**

**LANDSLIDES**

Town Line Brook and Jeffersonville

field measurements

have read Nichols et al., *Long Runout slides...*  
meet in room 200

**8-Oct**

**LANDSLIDE MECHANICS**

hands on exercises

have read McPhee *"LA against the Mountains"*

CLEAR PROJECT PLAN WITH PAUL ON OR BEFORE TODAY  
meet in computer lab

**10-Oct**

**LAKE LEVELS AND TERRACES**

Huntington River

dig pits, describe soils,  
analyze landscape history

have read Bierman et al., *GSA Today*  
meet in room 200

**15-Oct**

**GLACIERS- LANDFORMS AND PROCESSES**

slide lecture

have read Skinner and Porter, *Chapter 15*

SUBMIT 1 PAGE PROJECT PLAN BY EMAIL in PDF format  
email to pbierman@zoo.uvm.edu BEFORE CLASS TIME

meet in room 200

**17-Oct**

**VALLEY GLACIERS?**

Lake Mansfield!

have read Wagner, have read Loso et al.

meet in room 200

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**22-Oct**

**GLACIER RECONSTRUCTION**  
 Miller Brook Valley  
 meet in computer lab

**24-Oct**

**GLACIAL SEDIMENTS**  
 Champlain Lowland  
 meet in room 200

**29-Oct**

**RATES OF SURFACE PROCESSES**

lecture and activities  
 have read Bierman, JGR paper  
 have read Summerfield, Rates of uplift and ...  
 GSA Poster warm up  
 meet in room 200

**31-Oct**

**REMOTELY SENSED IMAGERY EXERCISE**

TERRASEREVER  
 airphotos  
 scale analysis  
 meet in room 200 then computer lab

**5-Nov**

**NO CLASS GSA WEEK**  
**PROJECT DATA GATHERING**

**7-Nov**

**NO CLASS GSA WEEK**  
**PROJECT DATA GATHERING**

**12-Nov**

**QUAKES 1**

**SUBMIT RAW PROJECT DATA at class time**  
 meet in room 200

**14-Nov**

**QUAKES 2**

lecture  
 seismic program  
 data activity  
 meet in computer lab

**19-Nov**

**NO CLASS**

**DRAFT PROJECT DUE BY NOON**  
 in PDF FORMAT BY email to pbierman@zoo.uvm.edu

**21-Nov**

**NO CLASS**

Turkey time

**26-Nov**

**BASALTIC VOLCANISM**

slide lecture  
 movie: season of fire

have read Volcanoes by Van Rose and Mercer;  
 have read McPhee, Cooling the Lava  
 meet in computer lab

DRAFT PROJECTS RETURNED FOR REVISION

**28-Nov**

**ANDESITIC VOLCANISM**

Mt. St. Helens mapping  
 Data activity  
 slide tour

have read Crandell and Mullineaux, Future eruptions  
 of St. Helens

meet in computer lab

FINAL WRITTEN PROJECTS DUE BY  
 EMAIL IN PDF FORMAT BY 8 AM Friday, Nov 30.

**3-Dec**

**WRITTEN PROJECTS RETURNED**

class evaluations  
 meet in room 200

**5-Dec**

**PROJECT PRESENTATIONS**

in PowerPoint  
 meet in computer lab