

**GEOMORPHOLOGY -- GEOL 151**  
**Paul Bierman 656-4411 203 Perkins Hall**  
 pbierman@zoo.uvm.edu  
 GTF: Ireusser@zoo.uvm.edu  
 MEETING PLACE: Perkins Rm 200, or as specified

	<b>PRACTICUM</b> <b>12:20-2:15</b> <b>MONDAY</b>	<div style="background-color: #e0ffe0; padding: 2px;">driving field trip</div> <div style="background-color: #e0e0ff; padding: 2px;">reading due</div> <div style="background-color: #e0ffff; padding: 2px;">project part due</div> <div style="background-color: #ffffe0; padding: 2px;">meet in computer lab</div>	<b>LABORATORY</b> <b>12:20-6:00</b> <b>WEDNESDAY</b>
<b>week 1</b>			<b>3-Sep</b> <b>INTRODUCTION</b> review PowerPoint and PDF <div style="background-color: #ffffe0; padding: 2px;"><i>meet in room 200; then computer lab</i></div>
<b>week 2</b>	<b>8-Sep</b> <b>SURVEYING TECHNIQUES 1 - GPS</b> Intro lecture GPS practice UTM coordinate system and plotting <i>meet in room 200, UVM Campus</i>		<b>10-Sep</b> <b>SURVEYING TECHNIQUES 2 - Autolevel</b> Intro lecture Autolevel practice data reduction <i>meet in room 200, UVM Green</i>
<b>week 3</b>	<b>15-Sep</b> <b>FLUVIAL PROCESSES AND LANDFORMS</b> slide lecture and book discussion intro to river flow and instruments <i>meet in room 200</i> <div style="background-color: #e0e0ff; padding: 2px;">have read McPhee, Atchafalaya BOOK</div>		<b>17-Sep</b> <b>FLOW GAUGING</b> working in river <i>meet in room 200, travel to river</i> <div style="background-color: #e0e0ff; padding: 2px;">have read Leopold, Water, Rivers and Creeks BOOK</div>
<b>week 4</b>	<b>22-Sep</b> <b>FLOW DATA REDUCTION AND HIKE PREP</b> use of barometer and thermometers local deglacial history lecture <div style="background-color: #ffffe0; padding: 2px;"><i>meet in computer lab</i></div>		<b>24-Sep</b> <b>MT MANSFIELD HIKE</b> hike up, hike down, take data <i>meet in Room 200, travel to Mtn</i> (lab will run late)
<b>week 5</b>	<b>29-Sep</b> <b>DATA REDUCTION, MANSFIELD</b> local Holocene history lecture <div style="background-color: #ffffe0; padding: 2px;"><i>meet in computer lab</i></div> <div style="background-color: #e0e0ff; padding: 2px;">have read Noren et al., Storms E-RESERVE</div>		<b>1-Oct</b> <b>MILLER BROOK FAN AND GULLY</b> field measurements <i>meet in room 200</i> <div style="background-color: #e0e0ff; padding: 2px;">have read Jennings et al., Fans E-RESERVE</div>
<b>week 6</b>	<b>6-Oct</b> <b>GULLY DATA REDUCTION</b> intro to slope stability <div style="background-color: #ffffe0; padding: 2px;"><i>meet in computer lab</i></div> <div style="background-color: #e0e0ff; padding: 2px;">have read McPhee "LA against the Mountains" BOOK</div>		<b>8-Oct</b> <b>LANDSLIDES</b> Town Line Brook field measurements Introduction to landscape change project <i>meet in room 200</i> <div style="background-color: #e0e0ff; padding: 2px;">have read Nichols, Long Run out... E-RESERVE</div>
<b>week 7</b>	<b>13-Oct</b> <b>LANDSLIDE MECHANICS</b> hands on exercises and reduce Townline Brook data <div style="background-color: #e0ffff; padding: 2px;"><b>CLEAR PROJECT PLAN WITH PAUL ON OR BEFORE TODAY</b></div> <div style="background-color: #ffffe0; padding: 2px;"><i>meet in computer lab</i></div>	intro to soils	<b>15-Oct</b> <b>LAKE LEVELS AND TERRACES</b> Huntington River dig pits, describe soils, analyze landscape history <i>meet in room 200</i> <div style="background-color: #e0e0ff; padding: 2px;">have read Whalen et al Guidebook E-RESERVE</div>
<b>week 8</b>	<b>20-Oct</b> <b>GLACIERS- LANDFORMS and PROCESSES</b> slide lecture <div style="border: 1px solid black; padding: 2px;">SUBMIT 1 PAGE PROJECT PLAN BY EMAIL in PDF format email to pbierman@zoo.uvm.edu BEFORE CLASS TIME</div> <i>meet in room 200</i> <div style="background-color: #e0e0ff; padding: 2px;">have read Skinner and Porter, Chapter 13 E-RESERVE</div> Luke reviews Susquehanna work on bedrock terraces		<b>22-Oct</b> <b>VALLEY GLACIERS?</b> Lake Mansfield! <i>meet in room 200</i> <div style="background-color: #e0e0ff; padding: 2px;">have read Wagner, read Loso et al., Waite and Davis, and Wright E-RESERVE</div>
<b>week 9</b>	<b>27-Oct</b> <b>GLACIER RECONSTRUCTION</b> Miller Brook Valley <div style="background-color: #ffffe0; padding: 2px;"><i>meet in computer lab</i></div>		<b>29-Oct</b> <b>GLACIAL SEDIMENTS</b> Champlain Lowland <i>meet in room 200</i>

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

driving field trip

reading due

project part due

meet in computer lab

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

GSA Poster warm up first

3-Nov  
**NO CLASS GSA WEEK**  
 PROJECT DATA GATHERING

5-Nov  
**NO CLASS GSA WEEK**  
 PROJECT DATA GATHERING

week 10      10-Nov  
**NO CLASS - Paul in Field**  
 SUBMIT RAW PROJECT DATA to Paul by email by 5 pm Monday; data sheets, scans, lists all OK.  
*meet in room 200*

12-Nov  
**QUAKES and LANDSCAPE CHANGE**  
 lecture  
  
 seismic program  
 data activity  
 meet in computer lab

week 11      17-Nov  
**BASALTIC VOLCANISM**  
 slide lecture  
 movie: season of fire  
*meet in room 200*  
 have read Volcanoes by Van Rose and Mercer;  
 have read McPhee, Cooling the Lava BOOKS

19-Nov  
**ANDESITIC VOLCANISM**  
 Mt. St. Helens mapping  
 St Helens slide tour  
*meet in room 200*  
 have read Crandell and Mullineaux, Future eruptions of St. Helens E-RESERVE

24-Nov  
**NO CLASS**  
**NO CLASS -- DRAFT PROJECTS DUE BY NOON**  
 in PDF FORMAT BY email to pbierman@zoo.uvm.edu

26-Nov  
**NO CLASS**  
 Turkey time

week 12      1-Dec  
**RATES OF SURFACE PROCESSES**  
  
 run streamwater samples on ICP  
*meet in room 200*  
**DRAFT PROJECTS RETURNED FOR REVISION BY APPOINTMENT AFTER CLASS**  
 have read Summerfield, Chap 15, Rates of uplift and ...

3-Dec  
**ANALYTICAL TOOLS AND TECHNIQUES FOR GEOMORPHOLOGISTS**  
 lecture and activities  
 meet in computer lab  
**FINAL WRITTEN PROJECTS DUE BY EMAIL AS A PDF BY 8 AM Friday, Dec 5.**  
 have read Bierman, Annual reviews paper E-RESERVE

week 13      8-Dec  
**WRITTEN PROJECTS RETURNED**  
 class evaluations  
*meet in room 200*

10-Dec  
**PROJECT PRESENTATIONS**  
 in PowerPoint  
 meet in computer lab