The course comprises 18 days of intensive classroom and field study, mostly in the field, away from Davis. Five quarter units. The course is offered through UC Summer Sessions (SSC 105/SSC 205 Special Session). See the web site at:

http://summer-sessions.ucdavis.edu/fieldCourses.cfm?goto=soil

For SSC 205, an extra written project that focuses on the application of some aspect of the course to a natural resource issue that involves soils is required. Please contact Randy Southard to discuss the scope of the graduate project prior to registration for SSC 205.

Instructors: Randy Southard, rjsouthard@ucdavis.edu, 530-752-7041. Gordon Rees, glrees@ucdavis.edu, 530-752-0144.

Grading: Exam, course summary written report, field exercise, and quizzes. For SSC 105, each accounts for 25% of the grade. For SSC 205, these four assignments, plus the additional written project, each account for 20% of the grade.


Schedule:

<table>
<thead>
<tr>
<th>DATE</th>
<th>TOPIC OR FIELD LOCATIONS. OVERNIGHT STOP UNDERLINED</th>
</tr>
</thead>
<tbody>
<tr>
<td>JUNE</td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>Monday 8 – 5 p.m. Course introduction, logistics. Introduction to soil morphology, classification, genesis, and mineralogy. <strong>Davis</strong>.</td>
</tr>
<tr>
<td>26</td>
<td>Tuesday 8 – 5 p.m. Soil morphology, classification, genesis, and mineralogy continued. Afternoon: Soils on valley fill, Sacramento Valley, Part I. <strong>Davis</strong>.</td>
</tr>
<tr>
<td>27</td>
<td>Wednesday Soils on valley fill, Sacramento Valley, part II. <strong>Davis</strong>.</td>
</tr>
<tr>
<td>28</td>
<td>Thursday Rocks and soils in northern Sierra Nevada foothills. <strong>Vine Hill</strong>.</td>
</tr>
<tr>
<td>29</td>
<td>Friday Sierran life zones/climatic transect on soils formed from andesitic materials. <strong>Silver Lake</strong>.</td>
</tr>
<tr>
<td>30</td>
<td>Saturday Glacial geomorphology and soils. <strong>Tahoma</strong>.</td>
</tr>
<tr>
<td>JULY</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Sunday Desert loess and soil development on remnant lakeshore features of Lake Lahontan (Olinghouse transect). <strong>Pyramid Lake</strong>.</td>
</tr>
<tr>
<td>2</td>
<td>Monday Great Basin/M孤oc soils. <strong>Susanville</strong>.</td>
</tr>
<tr>
<td>3</td>
<td>Tuesday Soils on volcanic parent material, southern Cascades, part I. <strong>Lost Creek, Lassen Volcanic National Park</strong>.</td>
</tr>
<tr>
<td>4</td>
<td>Wednesday Soils, geology and vegetation in Lassen National Park. <strong>Lost Creek, Lassen Volcanic National Park</strong>.</td>
</tr>
<tr>
<td>5</td>
<td>Thursday Soils on volcanic landscapes, southern Cascades, part II. <strong>Day Bench</strong>.</td>
</tr>
<tr>
<td>6</td>
<td>Friday Soils and agriculture in the Fall River Valley; soils on volcanic landscapes, southern Cascades, part III. <strong>Redding</strong>.</td>
</tr>
</tbody>
</table>
7 Saturday Soils on valley fill, Sacramento Valley, Part III. Red Bluff.

8 Sunday Coast Range hodge-podge: Coast Range valley fill, serpentinite, and Clear Lake volcanics. Hopland Research and Extension Center.

9 Monday Hillslope transects and mapping on Franciscan graywacke Hopland Research and Extension Center.

10 Tuesday Hillslope transects and mapping on Franciscan greywacke continued. Hopland Research and Extension Center.

11 Wednesday Coastal redwoods and the ecological staircase, Mendocino Coast. Van Damme State Park.

12 Thursday Ecological staircase. Return to Davis.

16 Monday Exam 9:00 a.m. - 12:00 noon.

19 Thursday Course summary written report due 5 pm.

25 Wednesday Written project for SSC 205 due 5 pm.

SUPPLIES, EQUIPMENT AND COSTS

For classroom and field:
1 8-1/2 x 11 3-ring binder with notebook paper
1 8-1/2 x 11 clip board for field note taking
1 Pocket notebook for miscellaneous field notes
1 Plastic ruler
1 Felt-tip pen (e.g., Flair) with black ink for soil map work
1 2-m locking steel measuring tape (Walmart, Davis Lumber)
1 Road map/atlas of California (UCD bookstore, Target, WalMart)
1 10x hand lens - leather lace for neck lanyard (Bookstore, Target)
1 Pencils with erasers, pencil sharpener
1 Keys to Soil Taxonomy, 2010, 11th edition, (see above)
1 Sturdy knife with sheath or hand trowel for soil excavation (Target, CVS, WalMart, Davis Lumber)
1 Calculator

Personal
Warm sleeping bag (bring a sheet for those warm nights), ground cloth, small tent (optional), air mattress or foam pad, towels, toilet articles, small first aid kit, sun screen, insect repellent, clothes for field (including hat, field boots, warm jacket and rain gear) and classroom (laundromats occasionally available during the trip), and water bottle for drinking water.

SANDALS AND OPEN-TOED SHOES ARE NOT PERMITTED FOR FIELD WORK.

Luggage limited to: 1 backpack, suitcase, or duffel bag, 1 day pack, sleeping bag, pad, tent.

Estimate of Cost

See Summer Session Web Site:
http://summer-sessions.ucdavis.edu/fees.cfm

This fee covers campus fees, transportation, campground/lodging, and most meals while in the field.

Books, personal supplies, and other meals while in field are not included.

HEALTH INSURANCE IS NOT INCLUDED IN THE COURSE FEE.

* While in Davis, out-of-towners can usually make arrangements to stay with others in the class. Otherwise, make reservations at a local motel (See http://travel.yahoo.com/p-hotel-474205-davis_hotels-i for more information).