

Earth and Planetary Science 101/271 Equipment and Supplies List

We will be working in the lab the very first day of class. Please bring a sharp pencil and eraser. We will be working in the field on our **second** scheduled class period so **these supplies** must be purchased by each student by the second day, pencils sharpened, ready to go, and brought to class on that day for use in the lecture and field. Also please remember to wear your field clothes like jeans, coat and a cap. Since figures used in the lectures are contained in the reader, bring it to class every day. Also, have your field book sheets cut out and pasted into your field notebook.

Course reader and lecture notes available: Vick's Copy 1879 Euclid Ave., Tel: 549-2679. **Cost: (about \$ 53 including tax)** This includes **Sections of a new book** on Digital Mapping in preparation by Brimhall.

Supplies to purchase:

Dick Blick formerly the Art Store 811 University Ave. 486-2600

Note: if Dick Blick runs out, you might also find the items at:

The Ink Stone (2302 Bowditch) 843-1162, theinkstone@earthlink.net

Buy only **PrismaColor Verithin** brand as they are **hard, fairly waterproof pencils**. These will be used in our class for geological mapping on paper before we use digital mapping computer systems:

PrismaColor Verithin brand 12 color set containing these colors or bought separately:

Poppy Red # 744
Orange # 737
Indigo # 741
Dark Brown # 746
Violet # 742
Grass green # 738
Peacock green # 739
Canary yellow # 735

2 black graphite drafting pencils: one each Mars Staedler 2H and 3H Lumograph,

10 erasers for end of pencils glued onto the end of each pencil,

3 pens: **Micron 05** pens in black, blue and red. These are for inking maps.

1 thin white vinyl eraser with pocket clip

Koh-I-Noor 3-hole aluminum **pencil sharpener**.

1 can of **spray adhesive Super 77** to affix printed field book sheets supplied by in reader as headings. **1 can be shared by several students.** Be sure to clean out the tip after each use by spraying upside down. *****

Miners Catalog Toll-free number: **(800)-824-7452** or **On-line** <http://www.minerox.com/results.cfm>

Rock Hammer (geologist's pointed-tip pick with a 22 oz. head and a sharp point not a chisel point).
Price about \$30.70

Hand lens: 14Power Hastings Triplet \$ 38.45 or 20 power Iwamoto \$ 87.60 which is expensive but Is the best hand lens around and will last a lifetime- **It makes a great Graduation Present you can use now.** Put hand lens on a neck thong or string around your neck.

Field boots: Try Wilderness Exchange on San Pablo or REI at 1338 San Pablo (both near Cedar). Used boots are often more comfortable and save **a lot** of money. Do not buy heavy expedition boots, but instead more flexible intermediate weight hiking boots **with vibram soles**. Spending more than \$ 80 is unnecessary. Be sure to waterproof the leather parts of your boots using either with beeswax or Snowseal.

Simple inexpensive belt with a non-magnetic buckle to hold your Brunton compass and loop for rock pick. **Brunton's must always be on a belt loop**, not carried in your hand. Magnetic belt buckles deflect the compass readings.

A **vest** is very handy to carry your map board so your hands are free. An inexpensive vest by Northwest Territory is often available at Kmart. A large inside pocket can be sewn and pockets on the back can be added for your rain gear.

Miners catalog has already made mapping vests too.

Inexpensive cotton gardening gloves (about \$ 2.50) can help reduce the risk of poison oak if you wash them after each day in the field.

Berkeley Hardware near University and oxford or **Orchard Supply** 1025 Ashby Phone: 540-6638:

Rainy-weather gear: A **rain suit is mandatory** for your own health. You must appropriate rain gear in order to stay dry and to function successfully in the field. **Each student must have a rain suit which is taken out in the field every day as we will work outdoors rain or shine.**

A **rain suit** consisting of a raincoat with a hood **and rain pants**. Get a larger size, especially the coat, than normal so that it fits over your clothes. Orchard Supply on Ashby near San Pablo usually has good quality suits at a reasonable price around \$25 to 30. Avoid buying expensive Gortex mountaineering suits unless you already own one.

We will order these for the class:

REQUIRED:

B 8116 (1) Field Notebook: Waterproof "Write in the Rain" brand hard bound field book \$ **17.55 plus tax and shipping**).

AX 949 2 (2) C-thru Brand Rulers 30/60 scale (\$ **1.90** each plus tax and shipping).

Please bring **cash** or make a **check payable to George Brimhall** for \$ **21.93 on the second day of class**

Suggested: Each student can order on their own if they wish:

Correlation of Stratigraphic Units (COSUNA Charts) The American Association of Petroleum Geologists (AAGG) as a **CD ROM (about \$ 49.00)** use the web:

<http://www.aapg.org/index.html>

Online Bookstore

Browse by Series

AAPG/Datapages Product Databases/Data Sets

Correlation of Stratigraphic Units of North America (COSUNA) Charts

Content: These COSUNA charts have stratigraphic sections for the entire USA. You will use them not only in this class, but probably for the rest of your career as no matter where you are, you can find the rock types in your area, ages, and thickness variations.

Provided by the Department and checked out on first day of class:

Brunton Compass (pocket transit), **map case** and 1 copy of Berkeley Hills **topographic map**