Announcing

Field Geology I
Spring 2014

Many thanks to Steve Reynolds, Steve Semken and David Haddad!
CATALOG DESCRIPTION

Geological mapping techniques using topographic maps and aerial photos. Intensive field-based instruction.
LEARNING OBJECTIVES

- **Read and use** topographic maps and images (including digital versions).
- **Observe, measure, record, describe,** and **interpret** the relevant aspects of **rocks** (in outcrop and hand specimen), surficial deposits, and structures.
- **Construct** geologic maps.
- **Construct** interpretative geologic cross-sections.
- **Reconstruct** geologic histories of simple to moderately complex field areas.
- **Write and illustrate** professional-quality geologic reports.
GEOLOGY IN THE FIELD

Robert R. Compton

Compton (1985)
## COURSE COMPONENTS AND DELIVERABLES

<table>
<thead>
<tr>
<th>Friday lessons</th>
<th><strong>Reading assignments.</strong></th>
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<tr>
<td>(weekly through 9 March, then alternating weeks after minicamp)</td>
<td>Weekly open-book quizzes on readings. In-class exercises.</td>
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<tr>
<td><strong>Weekend field trips</strong></td>
<td><strong>Field maps and strat columns.</strong></td>
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<td>(three; one overnight)</td>
<td>Sketched cross-sections. Field notes. Short reports due second Friday after each trip.</td>
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<tr>
<td><strong>Minicamp</strong></td>
<td><strong>Field map and strat columns.</strong></td>
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<td>(most of Spring Break)</td>
<td>Sketched and constructed cross-sections. Field notes. Final report and map, due late April.</td>
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Field trip localities and dates

- **Dreamy Draw**
  - Dates: 25-26 Jan

- **Salt River**
  - Dates: 8-9 Feb

- **Arnett Creek Minicamp**
  - Dates: 8-13 Mar

- **Spine Cañon**
  - Dates: 1-2 Feb
WHAT YOU’LL NEED

• Mapping equipment and supplies
• Hiking equipment and supplies
• Camping equipment and supplies
• Refer to Equipment, Supplies, and Apparel List (http://arrowsmith310.asu.edu/Lectures/FieldGeolEquip.pdf)
• Enthusiasm
• Good sense of humor
Spring 2012 GLG451 class