Announcing

Field Geology I

Spring 2016

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

| Friday lessons | Reading assignments.  
(weekly through 4 March, then alternating weeks after minicamp) | Weekly open-book quizzes on readings.  
In-class exercises. |
|----------------|------------------------------------------------------------------|
| **Weekend field trips** | Field maps and strat columns.  
Sketched cross-sections.  
Field notes.  
**Short reports** due second Friday after each trip. | |
| **Minicamp** | Field map and strat columns.  
Sketched and constructed cross-sections.  
Field notes.  
**Final report and map**,  
due late April. | |

*Friday lessons* (weekly through 4 March, then alternating weeks after minicamp)

*Reading assignments.* Weekly open-book quizzes on readings. In-class exercises.

**Weekend field trips** (three; one overnight)

Field maps and strat columns. Sketched cross-sections. Field notes. **Short reports** due second Friday after each trip.

**Minicamp** (most of Spring Break)

Field map and strat columns. Sketched and constructed cross-sections. Field notes. **Final report and map,** due late April.
Field trip localities and dates

- **Dreamy Draw**
  - 23-24 Jan
- **Salt River**
  - 27-28 Feb
- **Arnett Creek Minicamp**
  - 5-10 Mar
- **Spine Cañon**
  - 20-21 Feb

Location map showing Phoenix and surrounding areas.
WHAT YOU’LL NEED

- Mapping equipment and supplies
- Hiking equipment and supplies
- Camping equipment and supplies
- Refer to Equipment, Supplies, and Apparel List (http://www.public.asu.edu/~arrows/FIELDI/FieldGeolEquip.pdf)
- Enthusiasm
- Good sense of humor