

---

**Class Day and Time: Wednesday 12:00 – 12:50 and Friday 12:00 – 4:00**

**Faculty Team:**

Dr. Jeff Connelly	<a href="mailto:jbconnelly@ualr.edu">jbconnelly@ualr.edu</a>	569-3543
Dr. Beth McMillan	<a href="mailto:memcmillan@ualr.edu">memcmillan@ualr.edu</a>	569-3024
Dr. Jamey Jones	<a href="mailto:jvjones@ualr.edu">jvjones@ualr.edu</a>	683-7743
Wm. Jay Sims	<a href="mailto:wjsims@ualr.edu">wjsims@ualr.edu</a>	371-7613

**Classroom:** SCLB 165 and other sites to be announced  
**Department Office:** FH 307 Telephone is 569-3546  
**Office Hours:** By posted times or appointment with individual faculty  
**Dept Website:** <http://ualr.edu/earthsciences/>

### Required Supplies:

Procedures in Field Geology, Tom Freeman (1999)  
Geology Field Notebook  
Appropriate clothes/footwear for cold and wet weather  
USB memory stick, 512 mb minimum (USB pen/ flash/jump drive)

*See the attached list for other required or recommended field and office supplies*

### Prerequisites and Catalog Description

Prerequisites: ERSC 1302, ERSC 1102, ERSC 1303, ERSC 1103. Introduction to geologic field methods. Topics include: outcrop description; map and aerial photo interpretation; navigation skills; stratigraphic section measurement; cross-section construction; GPS and GIS techniques; computer drafting techniques; and geologic mapping in the Ouachita Mountains. Two hours lecture, three hours laboratory per week. Three credit hours.

### Assignments and Grading

Your course grade will be determined on the basis of weekly assignments, a literature review paper on the Ouachita Mountains, and a poster presentation highlighting the results of a geological mapping project at a locality west of Little Rock. Due dates for the assignments and projects are listed on the attached schedule. Please turn in all assignments on time. **Ten percent of an assignment's grade will be deducted for each day late.** Note: *attendance as a thinking adult in class is required* - class participation and professionalism will be included in your final grade.

Grades will be entered in Blackboard so that you can track your progress and performance during the semester. Letter grades are assigned based on the following standard categories: 100–90=A, 89–80=B, 79–70=C, 69–60=D, <60=F. Final letter grades will be determined at the discretion of the instructors based on the distribution of numerical averages (i.e., curving is possible).

We are here to facilitate your understanding of the material through explanation, illustration, and demonstration. ***You are responsible for your own learning.*** Class attendance, participation, and professionalism are required. You must come to class prepared. This means to have thoughtfully read and taken notes on pre-reading and other assignments and to be up-to-date on your field work. Realize that for a meaningful and productive college experience, *for every hour*

spent in class you need a minimum of two hours preparation and reflection outside of class for true learning to occur.

Students are responsible for ALL material covered that was missed due to illness, etc. All assignments and homework must be turned in at the beginning of class on the date due or earlier to the Faculty Lead for that assignment.

### **Attendance Policy**

Attendance is expected for each class. If you are not able to make one of the classes, you must:

- Notify the faculty with a legitimate excuse (we determine what legitimate is) BEFORE class (e.g., e-mail, voicemail, call department secretary)
- Meet with the lead faculty member for the missed class within two class days of the missed class to get the assignment.
- Complete the assignment as per arrangement with the lead faculty's instructions.

If you follow these steps, you will receive a grade of 'excused' for the assignment. This means you will not be penalized for missing the assignment and that a final grade will be normalized to reflect the excused absence. If you do not follow these steps, the result is no credit (0 points) for the missed class/assignment.

**\*NOTE\***: During class, all audible phones and pagers must be turned off (unless you are the sole caregiver and emergency contact for a child in K-12<sup>th</sup> grade - then set to vibrate or very low volume; however, abuse of this privilege will result in loss of this privilege). Students not complying may be dismissed from the class after faculty consultation.

### **Students with Disabilities**

It is the policy of the University of Arkansas at Little Rock to create inclusive learning environments. If there are aspects of the instruction or design of this course that result in barriers to your inclusion or to accurate assessment of achievement—such as time-limited exams, inaccessible web content, or the use of non-captioned videos—please notify the instructor as soon as possible. Students are also welcome to contact the Disability Resource Center, telephone 501-569-3143 (v/tty). For more information, visit the DRC website at <http://ualr.edu/disability/>.

### **Academic Integrity**

For UALR policies regarding student academic integrity, refer to the Dean of Students website (<http://ualr.edu/deanofstudents/index.php/home/academic-integrity/>). Academic dishonesty cannot be condoned or tolerated in the university community. Such behavior is considered a student conduct violation and students found responsible of committing an academic offense on the campus, or in connection with an institution-related or sponsored activity, or while representing the university or academic department, will be disciplined by the university. Cheating or other dishonest behavior will not be tolerated, and penalties will be imposed at the discretion of the instructor. In general, if you are caught cheating, you will receive a score of **zero** on that exercise and will not have a chance to make it up.

You will often, if not always, have the opportunity to work in groups during laboratory exercises. Unless a group report is specifically requested, you must turn in your own work in your own words.

Week	Date	Day	Excercise	Instructor	Due Dates
1	13-Jan	Wed	Course intro and overview	ERSC faculty	
	15-Jan	Fri	<b>Ex. 1 - Library resources</b>	Sims	
2	20-Jan	Wed	Geologic equipment		Ex. 1 due
	22-Jan	Fri	<b>Ex. 2 - Pace and compass map</b>	Jones McMillan	
3	27-Jan	Wed	Global Positioning System (GPS) basics		Ex. 2 due
	29-Jan	Fri	<b>No class - ice storm</b>		
4	3-Feb	Wed	Field safety and preparation		
	5-Feb	Fri	<b>Ex. 3 - GPS mapping on campus</b>	Jones McMillan	<i>Paper annotated references due</i>
5	10-Feb	Wed	Sedimentary rock description and measurement		Ex. 3 due
	12-Feb	Fri	<b>Ex. 4 - Outcrop description/sketch @ I-430 outcrop</b>	McMillan Sims	<i>Paper outline due</i>
6	17-Feb	Wed	Topographic map and aerial photograph overview		Ex. 4 due
	19-Feb	Fri	<b>Ex. 5 - Stratigraphic section measurement</b>	McMillan Sims	
7	24-Feb	Wed	Air photo interpretation		Ex. 5 due
	26-Feb	Fri	<b>Ex. 6 - Air photo mapping</b>	Jones McMillan	<i>Paper abstract due</i>
8	3-Mar	Wed	Introduction to Buzzard Mountain Project		Ex. 6 due
	5-Mar	Fri	<b>Ex. 7 - Stratigraphic section measurement at Buzzard Mountain, Ferndale</b>	Connelly Jones	
9	10-Mar	Wed	Geological mapping methods		Ex. 7 due
	12-Mar	Fri	<b>Geological mapping at Buzzard Mountain, Ferndale</b>	Connelly Jones	
10	17-Mar	Wed	Discussion of Ouachita Mts. Papers		Map check
	19-Mar	Fri	<b>Geological mapping at Buzzard Mountain, Ferndale</b>	Connelly Jones	<i>Paper due</i>
24-Mar		Wed	<b>Spring Break - independent mapping</b>		
26-Mar		Fri			
11	31-Mar	Wed	Feedback on Ouachita Mts. Papers		
	2-Apr	Fri	<b>Geological mapping at Buzzard Mountain, Ferndale</b>	Connelly Jones	
12	7-Apr	Wed	Introduction to computer methods		
	9-Apr	Fri	<b>Geological mapping at Buzzard Mountain, Ferndale</b>	Connelly Jones	
13	11-13 Apr		GSA SC Branson, MO		
	14-Apr	Wed	Poster layout		
	16-Apr	Fri	<b>Map completion, poster preparation</b>		<i>Geological map due</i>
14	21-Apr	Wed	Geological cross-section overview		
	23-Apr	Fri	<b>Cross-section construction</b>	Jones	
15	28-Apr	Wed	Poster consultation		<i>Cross-sections due</i>
	30-Apr	Fri	<b>Poster completion</b>		
16	4-May	Tues	<b>Consultation day - Poster presentations</b>		

This schedule is meant only as a basic outline and may change slightly during the semester. Any changes will be announced during class meetings.

## List of required and recommended gear for UALR Field Geology I

### *Geology equipment to be carried in the field:*

Good quality, comfortable daypack  
Rock hammer (these will be provided unless you bring your own)  
Brunton compass (these will be provided unless you bring your own)  
Hand lens (10x, Bausch & Lomb Hastings Triplet is recommended)  
Hardback field notebook (these will be available for purchase - \$10)  
Map board (plexiglas map boards will be made available for purchase - \$10)  
Mechanical pencils – at least 2, 0.5 mm, 2H or harder lead  
Colored pencils (8 colors minimum)  
Waterproof pens  
Waterproof markers  
Erasers – tube eraser or extra erasers for mechanical pencils  
Protractor and short ruler (look for combined protractor-rulers)  
Pocket knife or multi-tool  
Acid bottle w/ 10% HCl (these will be provided)  
Field belt or vest  
Field pouch or vest

### *Recommended personal equipment to be carried in the field:*

Water bottles or hydration system (carry at least 1 quart)  
Sturdy, broken-in field boots & socks (wicking socks and liners are recommended)  
Rain gear (jacket and pants recommended) and extra light-weight layers  
Gloves and winter hat  
Lightweight hat/bandana  
Lightweight, breathable field clothing (quick-drying material recommended)  
Sun-screen, SPF lip balm, sunglasses  
Extra pencils and lead  
Insect repellent

### *Recommended equipment for office work:*

Longer (12”) ruler or straight-edge  
White-out  
Scotch tape  
Scissors  
Tracing paper and stereonet from structural geology  
Graph paper (10 squares to the inch, commonly called Cross Section paper)  
Extra colored pencils  
Pencil sharpener  
Black drafting pens (at least three line widths, for example, the Pigma MICRON in sizes 005, 02, and 05)  
Red drafting pens (as above) for structural features (fold axial traces, etc.)  
Calculator

### *Optional field gear:*

Camera  
Binoculars  
GPS receiver (Garmin recommended)  
Cell phone and car charger  
Plastic container for lunch/snacks  
Small first aid kit (band-aids, tape, pain relievers, etc.)

**Note:** Many, if not all, of these supplies will be used in ERSC 4320: Field Geology II