

## Tentative Class Schedule – May 19-24, 2024

### Day 1 (Sunday)

4:00-6:00 Welcome mixer. [This is a mandatory meet and greet with free drinks and snacks.](#) We will introduce ourselves, the course, orient everyone to WKU campus and surrounding areas, discuss safety protocols, and address any questions and/or concerns. By reviewing the schedule and addressing questions, gear-related issues, etc. on Sunday night, we can avoid dealing with these issues on Monday and delaying class and field trips.

### Day 2 (Monday)

8:30 Introduction to Karst Landscapes/Aquifer Systems  
10:00 Coffee Break  
10:15 Hydrogeology of the south-central Kentucky karst region  
11:45 Lunch on your own  
1:00 Field trip (surface): From Ridge to Spring – Karst Hydrology of Mammoth Cave  
5:00 Dinner at Porky Pig Diner (Pre-Order)  
6:00-9:00 Field Trip (in-cave): Historic Route Mammoth Cave

### Day 3 (Tuesday)

8:00 Techniques in Karst Characterization and Assessment  
9:30 Coffee Break  
9:45 Environmental Problems in Karst: Local Case Studies  
11:15 Lunch on your own  
12:30 Field Trip: Urban Karst Challenges in the Lost River Basin  
4:00 Field Trip: Geophysics Demonstration  
6:00 Dinner on your own

### Day 4 (Wednesday)

8:00 Fluorescent Dye Tracing Tools and Techniques  
10:00 Break  
10:15 Groundwater Monitoring Methods  
11:30 Lunch on your own  
12:30 Field Trip: Lost River Basin – Groundwater Monitoring and Dye Tracing  
6:30 Dinner on your own

### Day 5 (Thursday)

8:00 Field Trip: Great Onyx Groundwater Basin Study, Mammoth Cave National Park  
12:00 Pack your own lunch (cooler provided)– MACA or HRC Picnic Area  
1:30 Field trip: Hidden River Cave: A Cave Conservation Success Story  
5:30 [Group dinner at El Mazatlán, Cave City](#)

**Day 6 (Friday)**

- 8:30 Data Interpretation and Building a Conceptual Model
- 10:00 Coffee Break
- 10:15 Breakout Groups: Design a Dye Trace. Participants will be given details of past projects and work cooperatively to design a groundwater investigation.
- 11:15 Dye Tracing Case Studies – Discussion on how student tracer test design compares to CHL and learn the real outcome of the project.
- 12:00 Lunch on your own
- 1:30 Crawford Hydrology Lab Tour and Demonstration
- 2:30 Field Trip: Lost River Cave Boat Tour
- 4:00 Field Trip: Chaney's – Sinkhole Dye Injection and Farewell Ice Cream Stop
- 6:00 Class Adjourns. For credit student meetings may be scheduled at this time.