

## **EEOB 5940: Field Zoology**

### **Instructor**

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### **Course Logistics**

Five-week course held at Stone Laboratory, Put-in-Bay, Ohio, June 18 – July 22, 2017.  
First Sunday, check-in, orientation, and one-half hour evening class. Regular class meetings are then every Tuesday, Thursday, Saturday, 8 am - 5 pm with breaks for lunch and dinner (further evening class activities may also be scheduled); last Friday and Saturday are altered schedules, 1 pm - 5 pm.

### **Course Format**

4 semester credit hours consisting of lecture, field work and laboratory time.

### **Course Description**

This course will explore the diversity of animal fauna with an emphasis on the Lake Erie region. Focus will be on organism identification, ecology, life-history, and phylogenetic relationships. A major portion of the course will include creating an individual collection of preserved animal specimens. This is a hands-on course and students should be prepared to engage in laboratory activities and extensive fieldwork, rain or shine.

### **Course Materials**

**Textbooks:** A textbook is not required. Field guides, identification manuals, and other references will be provided in the classroom. If you have your own field guides, feel free to bring them with you. The course will be based on the books listed below and students are welcome to acquire these if they wish.

- The Tree of Life: A Phylogenetic Classification. Lecointre, Guyader (optional)
- Animal Diversity (7<sup>th</sup> ed.). Hickman, Roberts, Keen, Larson, Eisenhour (optional)

**Required Supplies:** Rite in the Rain notebooks, pens, vials, insect boxes and pins, scissors, forceps, and all other supplies are required and will be available through the Marion Bookstore website after May 1 at: [osumarion.osu.edu](http://osumarion.osu.edu). Select "Bookstore" (in the *Our Quick Links* drop-down box). More detailed instructions regarding this website will be mailed to students the beginning of April. Students are encouraged to bring various small jars with tight lids (e.g., baby food, jam, spices, etc.), vials, zip-lock bags, and other small containers.

**Clothing:** Two sets of footwear are recommended for terrestrial and aquatic fieldwork. Sneakers are required for aquatic fieldwork (due to zebra mussels and sharp rocks). Bring a rain jacket!

**Course Outline** (Subject to change)

Day	AM	PM
Wk 1 – Tue	Lecture 1: Introduction to Zoology Lecture 2: Evolution Lecture 3: Phylogeny	Field Trip: Terwilliger's Pond
Wk 1 – Thu	Field Trip: Mainland (all day)	Field Trip: Mainland (all day)
Wk 1 – Sat	Lab: Organism identification	Lecture 4: Unicellular Eukaryotes Lecture 5: Metazoa Field Trip (9-11 pm): South Bass Island
Wk 2 – Tue	Lecture 6: Protostomia Lecture 7: Mollusca	Lecture 8: Arthropoda Lecture 9: Hexapoda
Wk 2 – Thu	Field Trip: Kelley's Island (all day)	Field Trip: Kelley's Island (all day) 7-9 pm Guest Lecture
Wk 2 – Sat	Lab: Organism identification	Review
Wk 3 – Tue	MIDTERM EXAM	Lab: Activity
Wk 3 – Thu	Lecture 10: Deuterostomia Lecture 11: Chordata Lecture 12: Fishes	Field Trip: Green Island 7-9 pm Guest Lecture
Wk 3 – Sat	Field Trip: North Bass Island (all day)	Field Trip: North Bass Island (all day)
Wk 4 – Tue	Lab: Organism identification	Lecture 13: Tetrapoda and Amphibia Lecture 14: Amniota and Mammalia
Wk 4 – Thu	Field Trip: South Bass Island	Lecture 15: Reptiles Lecture 16: Birds 7-9 pm Guest Lecture
Wk 4 - Sat	Field Trip: Electrofishing Lab: Organism identification	Lab: Fish dissection 7-9 pm Guest Lecture
Wk 5 – Tue	Lecture 17: Homeostasis Lecture 18: Ecology	Lab: Activity
Wk 5 – Thu	Field Trip: Mainland (all day)	Field Trip: Mainland (all day)
Wk 5 – Fri	No class	Review
Wk 5 – Sat	No class	FINAL EXAM

## **Major Assignments**

**Daily Assignments:** Class participation and written assignments will be based on lecture, field, and laboratory activities.

**Exams:** The midterm and final exam will include both written and laboratory practical portions. The written portion of the exam will consist of short answer, multiple choice, true and false, and/or fill-in-the-blank questions on material covered in lectures and assigned readings. The laboratory practical portion of the exam will consist of questions pertaining to organism identification, structure, ecology, and life history on material covered during laboratory and field activities.

**Specimen Collection:** Each student will create a specimen collection consisting of at least 100 specimens. The collection will be graded based on the number of specimens, taxonomic distribution, quality of data included in the field journal, and neatness/organization. Detailed instructions will be handed out at the beginning of the course.

## **Grading Information**

Daily Assignments	20%
Exams	40%
Specimen Collection	40%

## **Grading Scale**

93-100%	A
90-92.9%	A-
87-89.9%	B+
83-86.9%	B
80-82.9%	B-
77-79.9%	C+
73-76.9%	C
70-72.9%	C-
67-69.9%	D+
60-66.9%	D
<60%	E

## **Attendance Policy**

Students are expected to actively participate in all class sessions, including lectures, fieldwork and laboratory time.

## **Academic Misconduct**

It is the responsibility of the Committee on Academic Misconduct to investigate or establish procedures for the investigation of all reported cases of student academic misconduct. The term "academic misconduct" includes all forms of student academic misconduct wherever committed: illustrated by, but not limited to, cases of plagiarism and dishonest practices in connection with examinations. Instructors shall report all instances of alleged academic misconduct to the committee (Faculty Rule 3335-5-487). For additional information, see the Code of Student Conduct <http://studentlife.osu.edu/csc/>.

## **Disability Services**

Students with disabilities that have been certified by the Office for Disability Services will be appropriately accommodated and should inform the instructor as soon as possible of their needs. The Office for Disability Services is located in **089 Baker Hall, 113 W. 12<sup>th</sup> Ave.;** telephone **614-292-3307, TDD 614-292-0901;** <http://www.slds.osu.edu/>.