

# Taxonomy & Behavior of Aquatic Invertebrates Syllabus

ENR 5350.01 SU25

## Course Information

- **Course times and location:**
  - Lecture: Monday, Wednesday, Friday 8:00 am – 12:00 pm; Stone Lab
  - Lab: Tuesday 11:30- am – 2:30 pm; Olentangy River Wetland Research Park (ORWRP)
- **Credit hours:** 3
- **Mode of delivery:** in person

## Instructor

- **Name:** Zachary Steffensmeier
- **Email:** Steffensmeier.7@osu.edu
- **Phone Number:** 614-292-2265 (SENR Main Office)
- **Office location:** Stone Lab
- **Office hours:** By appointment
- **Preferred means of communication:**
  - My preferred method of communication for questions is **email**.
  - My class-wide communications will be sent through the Announcements tool in CarmenCanvas. Please check your [notification preferences](https://go.osu.edu/canvas-notifications) (go.osu.edu/canvas-notifications) to be sure you receive these messages.

## Course Prerequisites/Co-Requisites

None.

## Course Exceptions

Not open to students with credit for ENTMLGY 5350.01.



## Course Description

Taxonomy and behavior of the major groups of aquatic invertebrates, with an emphasis on North American freshwater macroinvertebrates.

This course investigates the taxonomy and behavior of freshwater aquatic invertebrates. to freshwater systems and its abiotic and biotic components. During the semester we will look at general morphology, taxonomy, phylogeny, ecology, behavior, adaptations, and diversity of freshwater aquatic invertebrates. Students will demonstrate lab and field techniques during the semester to collect invertebrate data for biomonitoring and curate their own collections.

## Goals/Course Learning Outcomes

After successful completion of ENR 5350.01, students will:

Students will be able to recognize and utilize the interdependence of aquatic invertebrates and the health of ecosystems and be able to evaluate material commensurate to a professional in the discipline.

As a result, after this course students will be able to:

- Discuss the evolutionary relationships among aquatic invertebrates and their significance in the broader context of biodiversity.
- Identify North American freshwater invertebrates using dichotomous keys and be able to curate a collection of specimens.
- Describe the morphological and physiological features of major aquatic invertebrate groups and discuss how they respond to their environment.
- Evaluate data with reference to the biology of aquatic invertebrates and appraise the data in professional manner.

## How This Course Works

**Mode of delivery:** This course is taught in person. Students are expected to attend class each week during the scheduled meeting sessions. For lab collection trips outside of ORWRP, transportation will be provided or students may opt to drive themselves.

**Credit hours and work expectations:** This is a 3 credit-hour course. According to [Ohio State bylaws on instruction](http://go.osu.edu/credithours) (go.osu.edu/credithours), students should expect around 1 hour per week of time spent on direct instruction in lecture, 3 hours of laboratory work, in addition to 6 hours of homework (reading and assignment preparation, for example) to receive a grade of C average.

**Attendance and participation requirements:** Research shows regular participation is one of the highest predictors of success. In addition, the laboratory's dynamic is based on the active performance of field techniques. Therefore, your regular attendance and participation are crucial to the lab grade.



# Course Materials, Fees and Technologies

## Required Materials and/or Technologies

### Required materials

- Rite in the Rain All-Weather notebook. Various sizes acceptable, suggested 4 5/8" x 7". Any type of paper gridding accepted. Other similar, water-resistant notebooks accepted.

## Recommended/Optional Materials and/or Technologies

Thorp, J.W and D.C. Rogers. 2011. Field Guide to Freshwater Invertebrates of North America. Academic Press, 304 pp. ISBN: 978-0-12-381426-5.

Available online through OSU library. Referred to as "Field Guide"

Thorp, J.H. and Covich, A.P. eds., 2009. Ecology and classification of North American freshwater invertebrates. Academic press. ISBN: 978-0-08-088981-8.

Available online through OSU library. Referred to as "T&C"

Bouchard, R.W., Jr. 2004. Guide to aquatic macroinvertebrates of the Upper Midwest.

Ferrington, L.C., Jr. and M.L. Karius, Eds. Water Resources Center, University of Minnesota, St. Paul, MN, 208 pp.

Available online: use QR code or <https://dep.wv.gov/WWE/getinvolved/sos/Pages/UMW.aspx>

Referred to as "Midwest", QR code is link to webpage

<https://dep.wv.gov/WWE/getinvolved/sos/Pages/UMW.aspx>

Merritt, R. W., K. W. Cummins, and M. B. Berg (eds). 2008. An Introduction to the Aquatic Insects of North America (4th ed). Kendall/Hunt Publ. Co., Dubuque, IA 1158 pp. ISBN: 978-0757563218

(Note, we have copies to borrow during lab at the Wetlands)

Appstore: PocketMacros; Great app for learning while in the field!

Additional keys for identification will be available in the lab.

## Required Equipment

- **Computer:** current Mac (MacOS) or PC (Windows 10) with high-speed internet connection.
- **Webcam:** built-in or external webcam, fully installed and tested
- **Microphone:** built-in laptop or tablet mic or external microphone
- **Other:** a mobile device (smartphone or tablet) to use for BuckeyePass authentication

If you do not have access to the technology you need to succeed in this class, review options for [technology and internet access](https://go.osu.edu/student-tech-access) (go.osu.edu/student-tech-access).



## Required Software

**Microsoft Office 365:** All Ohio State students are now eligible for free Microsoft Office 365. Visit the [installing Office 365](https://go.osu.edu/office365help) (go.osu.edu/office365help) help article for full instructions.

## CarmenCanvas Access

You will need to use [BuckeyePass](https://buckeyepass.osu.edu) (buckeyepass.osu.edu) multi-factor authentication to access your courses in Carmen. To ensure that you are able to connect to Carmen at all times, it is recommended that you do each of the following:

- Register multiple devices in case something happens to your primary device. Visit the [BuckeyePass - Adding a Device](https://go.osu.edu/add-device) (go.osu.edu/add-device) help article for step-by-step instructions.
- Request passcodes to keep as a backup authentication option. When you see the Duo login screen on your computer, click **Enter a Passcode** and then click the **Text me a new code** button that appears. Users will only receive one SMS passcode at a time. Using the “Trust Browser” feature on a user’s first authentication log in of the day will allow the user to bypass the need for another passcode for 24 hours.
- [Install the Duo Mobile application](https://go.osu.edu/install-duo) (go.osu.edu/install-duo) on all of your registered devices for the ability to generate one-time codes in the event that you lose cell, data, or Wi-Fi service.

If none of these options will meet the needs of your situation, you can contact the IT Service Desk at [614-688-4357 \(HELP\)](tel:614-688-4357) and IT support staff will work out a solution with you.

## Technology Skills Needed for This Course

- Basic computer and web-browsing skills
- [Navigating CarmenCanvas](https://go.osu.edu/canvasstudent) (go.osu.edu/canvasstudent)
- [CarmenZoom virtual meetings](https://go.osu.edu/zoom-meetings) (go.osu.edu/zoom-meetings)
- [Recording a slide presentation with audio narration and recording, editing and uploading video](https://go.osu.edu/video-assignment-guide) (go.osu.edu/video-assignment-guide)

## Technology Support

For help with your password, university email, CarmenCanvas, or any other technology issues, questions or requests, contact the IT Service Desk, which offers 24-hour support, seven days a week.

- **Self Service and Chat:** [go.osu.edu/it](https://go.osu.edu/it)
- **Phone:** [614-688-4357 \(HELP\)](tel:614-688-4357)
- **Email:** [servicedesk@osu.edu](mailto:servicedesk@osu.edu)

# Grading and Faculty Response

## How Your Grade is Calculated

Assignment Category	Points
Exams (2)	Each 15% of final grade; 30% total
Lab Quizzes and Lab Participation	20%
Collection Catalog and Field Notebook	30%
Aquatic invertebrate project(s)	20%

See [Course Schedule](#) for due dates.

Graduate and undergraduate students will be graded using the same rubrics in this class.

## Descriptions of Major Course Assignments

### Exams

**Description:** Exams are based on lectures, assigned journal readings, and lab sessions. Exams consist of short answers, multiple choice, and laboratory specimen identification. Unless otherwise arranged, exams must be completed during class time.

**Academic integrity and collaboration:** Your written assignments, including discussion posts, must be your own original work. In formal assignments, you should follow APA style to cite the ideas and words of your research sources. You are encouraged to ask a trusted person to proofread your assignments before you turn them in but no one else should revise or rewrite your work.

Exams must be completed on your own without use of any external sources (including but not limited to notes, textbooks, websites, or other persons)

### Lab Quizzes and Lab Participation

**Description:** Quizzes will be given at the beginning of most laboratories. The student will be responsible for reading the modules in advance and being up to date with any other material provided. The format and value of each quiz may change accordingly. The laboratory's dynamic is based on the active performance of field techniques. Therefore, your regular attendance and participation are crucial to the lab grade. Missing labs will result in a 0 on the quiz and attendance for that week. To make up a lab (assuming a valid excuse AND you email me ahead of time [Steffensmeier.7@osu.edu](mailto:Steffensmeier.7@osu.edu) - Students

that reach out *after* their absence must have valid extenuating circumstances and accommodation will only be considered on a case-by-case basis), you must write a 1-page paper critiquing a peer reviewed journal article relating to the lab topic missed for that week.. This must be completed and submitted to me and the teaching assistant no later than 1-week from the initial laboratory date. The paper must be single spaced, 12-pt font times new roman with 1-inch margins. If you have a valid excuse, you still are required to reschedule (with the TA or me) and take a makeup quiz within 1 week of absence. You may do this a maximum of two times during the semester with permission from me.

**Academic integrity and collaboration:** Quizzes must be completed on your own without use of any external sources (including but not limited to notes, textbooks, websites, or other persons). Make up journal article critiques must be completed on your own without the use of artificial intelligence or other persons. You should cite your sources following APA guidelines (<https://guides.osu.edu/c.php?g=735128&p=7248617>)

## Collection Catalog and Field Notebook

**Description:** Your collection of aquatic insects and field notebook are required and constitute 30% of your final grade. The purpose is to give maximum experience with aquatic insect taxonomy. You will be provided with specimen vials, preservative, and labeling paper and tape.

You may check out collection equipment (nets, screens, bottom samplers) from the laboratory. Specimens are to be preserved in 70% ethyl alcohol and stored in 2- or 4-dram vials (screwtop). You must thoroughly label each specimen vial with a location label (name of waterbody, state and county, UTM, sampling date, name of collector), taxonomic label (order, family, genus, species, life stage). Labels should be placed inside the vial.

**Academic integrity and collaboration:** You must collect all specimens yourself and collect them during this semester. However, you may work with others in collecting and identifying the insects.

## Aquatic invertebrate project(s)

**Description:** For this assignment, your instructor will provide you with details on how to complete a project (or projects) that allows you to practice skills and data analysis in a professional manner. This project can include evaluating data and using it to assess habitats, designing and implementing an experimental design involving aquatic invertebrates or critiquing academic information and synthesizing an evaluation of the material. Your instructor will give further details on the project in Carmen.

### **Academic integrity and collaboration:**

Projects must be completed on your own without the use of artificial intelligence or other persons, unless permitted by your instructor in the assignment prompt. You should cite your sources following APA guidelines (<https://guides.osu.edu/c.php?g=735128&p=7248617>)

## Late Assignments

Please refer to Carmen for due dates. Due dates are set to help you stay on pace and to allow timely feedback that will help you complete subsequent assignments.

The penalty for late assignments is 20% of the assignment total per calendar day. There should be extenuating circumstances for missing a scheduled activity, quiz or exam. In these cases, early arrangements will need to be coordinated.

**\*\*IMPORTANT:** You must contact the instructors **PRIOR TO** a planned conflict to make arrangements for modified deadlines. Otherwise, no arrangements will be made. If you are ill the day of an assignment/exam, you must reach out to the instructors with verification of your absence on the day of the missed deadline, otherwise no accommodations will be made. If it is impossible to make prior notification, please reach out as soon as possible. Situations will be considered on a case-by-case basis and documentation will be required

## Instructor Feedback and Response Time

I am providing the following list to give you an idea of my intended availability throughout the course. Remember that you can call [614-688-4357 \(HELP\)](tel:614-688-4357) at any time if you have a technical problem.

- **Preferred contact method:** If you have a question, please contact me first through my Ohio State email address ([Steffensmeier.7@osu.edu](mailto:Steffensmeier.7@osu.edu)). I will reply to emails within **24 hours on days when class is in session at the university**.
- **Class announcements:** I will send all important class-wide messages through the Announcements tool in CarmenCanvas. Please check [your notification preferences](https://go.osu.edu/canvas-notifications) ([go.osu.edu/canvas-notifications](https://go.osu.edu/canvas-notifications)) to ensure you receive these messages.
- **Grading and feedback:** For assignments submitted before the due date, I will try to provide feedback and grades within **seven days**. Assignments submitted after the due date may have reduced feedback and grades may take longer to be posted.

## 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  
 Below 60: E

## Academic Integrity Policy

See [Descriptions of Major Course Assignments](#) for specific guidelines about collaboration and academic integrity in the context of this online class.

### Ohio State's Academic Integrity Policy

Academic integrity is essential to maintaining an environment that fosters excellence in teaching, research, and other educational and scholarly activities. Thus, The Ohio State University and the Committee on Academic Misconduct (COAM) expect that all students have read and understand the University's Code of Student Conduct, and that all students will complete all academic and scholarly assignments with fairness and honesty. Students must recognize that failure to follow the rules and guidelines established in the University's Code of Student Conduct and this syllabus may constitute Academic Misconduct.

The Ohio State University's Code of Student Conduct (Section 3335-23-04) defines academic misconduct as: Any activity that tends to compromise the academic integrity of the University, or subvert the educational process. Examples of academic misconduct include (but are not limited to) plagiarism, collusion (unauthorized collaboration), copying the work of another student, and possession of unauthorized materials during an examination. Ignorance of the University's Code of Student Conduct is never considered an excuse for academic misconduct, so I recommend that you review the Code of Student Conduct and, specifically, the sections dealing with academic misconduct.

**If I suspect that a student has committed academic misconduct in this course, I am obligated by University Rules to report my suspicions to the Committee on Academic Misconduct.** If COAM determines that you have violated the University's Code of Student Conduct (i.e., committed academic misconduct), the sanctions for the misconduct could include a failing grade in this course and suspension or dismissal from the University.

If you have any questions about the above policy or what constitutes academic misconduct in this course, please contact me.

## Copyright for Instructional Materials

The materials used in connection with this course may be subject to copyright protection and are only for the use of students officially enrolled in the course for the educational purposes associated with the course. Copyright law must be considered before copying, retaining, or disseminating materials outside of the course.

## Creating an Environment Free from Harassment, Discrimination, and Sexual Misconduct

The Ohio State University is committed to building and maintaining a community to reflect diversity and to improve opportunities for all. All Buckeyes have the right to be free from harassment, discrimination, and sexual misconduct. Ohio State does not discriminate on the basis of age, ancestry, color, disability, ethnicity, gender, gender identity or expression, genetic

information, HIV/AIDS status, military status, national origin, pregnancy (childbirth, false pregnancy, termination of pregnancy, or recovery therefrom), race, religion, sex, sexual orientation, or protected veteran status, or any other bases under the law, in its activities, academic programs, admission, and employment. Members of the university community also have the right to be free from all forms of sexual misconduct: sexual harassment, sexual assault, relationship violence, stalking, and sexual exploitation.

To report harassment, discrimination, sexual misconduct, or retaliation and/or seek confidential and non-confidential resources and supportive measures, contact the Civil Rights Compliance Office:

- Online reporting form at <https://civilrights.osu.edu/>
- Call 614-247-5838 or TTY 614-688-8605,
- Or Email [civilrights@osu.edu](mailto:civilrights@osu.edu)

The university is committed to stopping sexual misconduct, preventing its recurrence, eliminating any hostile environment, and remedying its discriminatory effects. All university employees have reporting responsibilities to the Office of Institutional Equity to ensure the university can take appropriate action:

- All university employees, except those exempted by legal privilege of confidentiality or expressly identified as a confidential reporter, have an obligation to report incidents of sexual assault immediately.
- The following employees have an obligation to report all other forms of sexual misconduct as soon as practicable but at most within five workdays of becoming aware of such information: 1. Any human resource professional (HRP); 2. Anyone who supervises faculty, staff, students, or volunteers; 3. Chair/director; and 4. Faculty member.

## Diversity Statement

The Ohio State University affirms the importance and value of diversity of people and ideas. We believe in creating equitable research opportunities for all students and to providing programs and curricula that allow our students to understand critical societal challenges from diverse perspectives and aspire to use research to promote sustainable solutions for all. We are committed to maintaining an inclusive community that recognizes and values the inherent worth and dignity of every person; fosters sensitivity, understanding, and mutual respect among all members; and encourages each individual to strive to reach their own potential. The Ohio State University does not discriminate on the basis of age, ancestry, color, disability, gender identity or expression, genetic information, HIV/AIDS status, military status, national origin, race, religion, sex, gender, sexual orientation, pregnancy, protected veteran status, or any other bases under the law, in its activities, academic programs, admission, and employment.

In addition, this course adheres to **The Principles of Community** adopted by the College of Food, Agricultural, and Environmental Sciences. These principles can be found at <https://cfaes.osu.edu/about/cfaes-principles-community>. If you have been a victim of or a witness to

harassment or discrimination or a bias incident, you can report it online and anonymously (if you choose) at <https://civilrights.osu.edu/>.

## Your Mental Health

As a student you may experience a range of issues that can cause barriers to learning, such as strained relationships, increased anxiety, alcohol/drug problems, feeling down, difficulty concentrating and/or lack of motivation. These mental health concerns or stressful events may lead to diminished academic performance or reduce a student's ability to participate in daily activities. The Ohio State University offers services to assist you with addressing these and other concerns you may be experiencing.

If you or someone you know are suffering from any of the aforementioned conditions, you can learn more about the broad range of confidential mental health services available on campus via the Office of Student Life's Counseling and Consultation Service (CCS) by visiting [ccs.osu.edu](https://ccs.osu.edu) or calling 614-292-5766. CCS is located on the 4th floor of the Younkin Success Center and 10th floor of Lincoln Tower. You can reach an on-call counselor when CCS is closed at 614-292-5766 and 24 hour emergency help is also available 24/7 **by dialing 988 to reach the Suicide and Crisis Lifeline.**

For students in the College of Food, Agricultural, and Environmental Sciences, David Wirt, [wirt.9@osu.edu](mailto:wirt.9@osu.edu), is the CFAES embedded mental health counselor on the Columbus campus. To contact David, please call 614-292-5766. Students should mention their affiliation with CFAES if interested in speaking directly with David.

## Disability Accommodations

The university strives to maintain a healthy and accessible environment to support student learning in and out of the classroom. If you anticipate or experience academic barriers based on your disability (including mental health, chronic, or temporary medical conditions), please let me know immediately so that we can privately discuss options. To establish reasonable accommodations, I may request that you register with Student Life Disability Services. After registration, make arrangements with me as soon as possible to discuss your accommodations so that they may be implemented in a timely fashion.

If you are ill and need to miss class, including if you are staying home and away from others while experiencing symptoms of a viral infection or fever,



please let me know immediately. In cases where illness interacts with an underlying medical condition, please consult with Student Life Disability Services to request reasonable accommodations. You can connect with them at [slds@osu.edu](mailto:slds@osu.edu); 614-292-3307; or [slds.osu.edu](http://slds.osu.edu).

## Accessibility of Course Technology

This online course requires use of CarmenCanvas (Ohio State's learning management system) and other online communication and multimedia tools. If you need additional services to use these technologies, please request accommodations as early as possible.

- [CarmenCanvas accessibility](http://go.osu.edu/canvas-accessibility) ([go.osu.edu/canvas-accessibility](http://go.osu.edu/canvas-accessibility))
- Streaming audio and video
- [CarmenZoom accessibility](http://go.osu.edu/zoom-accessibility) ([go.osu.edu/zoom-accessibility](http://go.osu.edu/zoom-accessibility))

## Religious Accommodations

Ohio State has had a longstanding practice of making reasonable academic accommodations for students' religious beliefs and practices in accordance with applicable law. In 2023, Ohio State updated its practice to align with new state legislation. Under this new provision, students must be in early communication with their instructors regarding any known accommodation requests for religious beliefs and practices, providing notice of specific dates for which they request alternative accommodations within 14 days after the first instructional day of the course. Instructors in turn shall not question the sincerity of a student's religious or spiritual belief system in reviewing such requests and shall keep requests for accommodations confidential.

With sufficient notice, instructors will provide students with reasonable alternative accommodations with regard to examinations and other academic requirements with respect to students' sincerely held religious beliefs and practices by allowing up to three absences each semester for the student to attend or participate in religious activities. Examples of religious accommodations can include, but are not limited to, rescheduling an exam, altering the time of a student's presentation, allowing make-up assignments to substitute for missed class work, or flexibility in due dates or research responsibilities. If concerns arise about a requested accommodation, instructors are to consult their tenure initiating unit head for assistance.

A student's request for time off shall be provided if the student's sincerely held religious belief or practice severely affects the student's ability to take an exam or meet an academic requirement and the student has notified their instructor, in writing during the first 14 days after the course begins, of the date of each absence. Although students are required to provide notice within the first 14 days after a course begins, instructors are strongly encouraged to work with the student to provide a reasonable accommodation if a request is made outside the notice period. A student may not be penalized for an absence approved under this policy.

If students have questions or disputes related to academic accommodations, they should contact their course instructor, and then their department or college office. For questions or to report discrimination or harassment based on religion, individuals should contact the [Civil Rights Compliance Office](#).

Policy: [Religious Holidays, Holy Days and Observances](#)

## Weather or other short-term closing

Although Ohio State strives to remain open to ensure continuity of services to students and the public, extreme conditions can warrant the usage of the university's [Weather or Other Short-Term Closing Policy](#). Please [visit this webpage](#) to learn more about preparing for potential closings and planning ahead for winter weather.

# Course Schedule

Refer to the CarmenCanvas course for up-to-date due dates.

## \*\*LECTURE AND LAB COURSE SCHEDULE (SUBJECT TO CHANGE)

### Lecture and Lab Schedule

Day	Time	Description	Readings & Assignments
Monday 6/02	4:00-5:00p 5:00-6:00p 6:30-7:00p	Stone Lab Orientation <i>Dinner</i> Course Overview	
WEEK ONE: Introduction, Arthropods, Identification			
Wednesday 6/04	7:00-8:00a 8:00a-12:00p  12:00-1:00p 1:00p-4:00p  5:00p-6:00p	<i>Breakfast</i> <b>Lecture:</b> Introduction to Aquatic Insects of North America and General Morphology <i>Lunch</i> <b>Lab 1</b> (1. Safety and Equipment; Key to Insect Orders) and Terwilliger's Pond <i>Dinner</i>	<i>Reading</i>
Friday 6/06	7:00-8:00a 8:00a-12:00p  12:00-1:00p 1:00p-5:00p  5:00p-6:00p	<i>Breakfast</i> <b>Lecture:</b> Sampling Aquatic Insects; Aquatic Insect Respiration <i>Lunch</i> <b>Field trip</b> Middle Bass Island <i>Ephemeroptera Lab</i> <i>Dinner</i>	<i>Reading</i>  <i>5 specimens due!</i>  Quiz 1
WEEK TWO: Aquatic Insects and Project Outline			
Monday 6/9	7:00-7:30a 7:30a-12:00p  12:00-1:00p 1:00p-4:45p 5:00p-6:00p	<i>Breakfast</i> <b>Lecture: Life History, Habitat, Secondary Production, and Behavioral Adaptations</b> <i>Lunch</i> <b>Field trip</b> Mainland <i>Dinner</i>	<i>Reading</i>
Wednesday 6/11	7:00-8:00a 8:15a-4:35p  5:00p-6:00p	<i>Breakfast</i> <b>Field trip</b> (Kelly's Island)  <i>Dinner</i>	<i>Reading</i>
Friday 6/13	7:00-8:00a 8:00a-12:00p  12:00-1:00p 1:00-5:00p 5:00-6:00p	<i>Breakfast</i> <b>Lecture: Ecology and Distribution; Bioassessments; Phylogeny and Adaptations</b> <i>Lunch</i> <b>Odonata and Hemiptera Lab</b> <i>Dinner</i>	<i>Reading</i>  10 specimens due!  Quiz 2
WEEK THREE: Stream Sampling and Ohio EPA			
Monday 06/16	7:00-8a 8:00a-10a 10-11a 12:00-1:00p 1:00p-4:45p 5:00p-6:00p	<i>Breakfast</i> <i>Lecture</i> <b>Quiz 2</b> <i>Lunch</i> Lab - Project <i>Dinner</i>	<i>Reading</i>
Wednesday 06/18	7:00-7:30a 7:30a-4:30p 5:00p-6:00p	<i>Breakfast*</i> <b>Field trip – Mainland (East of Port Clinton)</b> <i>Dinner</i>	



Friday 06/20	7:00-8:00a 8:00-9:00a 9:00-12:00p 12:00-1:00p 1:00-5:00p 5:00-6:00p	<i>Breakfast</i> <b>Midterm Exam #1</b> <b>Lab</b> (Project) <i>Lunch</i> <b>Lab 8</b> (Project; Collection ID) <i>Dinner</i>	<i>Reading</i>  20 total specimens due!  Quiz 3
<b>WEEK FOUR: Collections and Behavior Projects</b>			
Monday 6/23	7:00-8:00a 8:00a-12:00p 12:00-1:00p 1:30-2:00p  2:00-5:00p  5:00-6:00p	<i>Breakfast</i> <b>Field Trip</b> (TBD) <i>Lunch</i> <b>Quiz 3</b> <b>Lab</b> (Project – analysis & time to work on project) Curate Collections <i>Dinner</i>	<i>Reading</i>
Wednesday 6/25	7:00-8:00a 8:00a-12:00p 12:00-1:00p 2:00-5:00p 5:00-6:00p 7:00-9:00p	<i>Breakfast</i> <i>Mainland Trip</i> (trying to get this moved to early in the semester) <b>Project Group Presentations</b> <i>Lunch</i> <b>Lab</b> (Collection ID – finish up & writing) <i>Dinner</i>	<b>Projects Due</b> <b>Collections Due</b>
Friday 6/28	7:00-8:00a 8:00-11:00a 12:00-1:00p 1:00-3:00p 5:00p	<i>Breakfast</i> <b>Exam #2/Practical</b> <i>Lunch</i> <b>Debrief</b> <i>Dinner</i>	<b>Lab and Lecture Exams</b>

