INVERTEBRATE BIODIVERSITY

ZOO 4205C

SUMMER C 2024 • THE UNIVERSITY OF FLORIDA

CLASS TIMES

Lecture: Tuesday and Thursday 9:30 am – 12:15 pm, Carr Hall Room 611

Lab: Thursday 2 pm – 6:15 pm, Carr Hall Room 120

INSTRUCTOR

Dr. Melissa Meadows Department of Biology Email: <u>melissa.meadows@ufl.edu</u> Zoom Office: <u>https://ufl.zoom.us/j/3066712046</u> In-person Office: Carr 522B Student Office Hours: T 1-2 pm; W (Zoom) 1-3 pm, by appointment Reserve your spot: <u>https://tinyurl.com/3ndh5c24</u>

COURSE GOALS

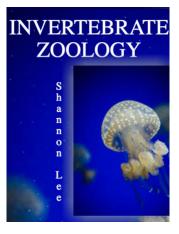
In this course, you'll learn in brilliant detail about our incredible diversity of invertebrate animals. Courses such as this one focus a great deal on anatomy and identification, but you'll also be learning about the evolution of these organisms as well as their ecology. Along the way, you'll develop your skills in scientific illustration (no, you don't have to be an artist!), keeping a lab/field journal, reading primary literature and understanding research lectures, and more.

COURSE REQUIREMENTS

Textbook

Required: Invertebrate Zoology by Dr. Shannon Lee, published in Top Hat and updated by Dr. Melissa Meadows (that's me [©]). See more below.

Recommended excellent text for more information about your favorite topics: Brusca, R. C. et al. 2023. Invertebrates. 4th Edition. Sinauer, Sunderland, MA. You will not need this book fully participate in the course, but it's great to have on hand to learn more if you can get a used or e-book copy. I also have a few personal copies that I'm willing to loan out, so just ask!





A good field guide for use on <u>optional</u> marine field trips: <u>Florida's Living Beaches (2nd Ed)</u>, <u>Blair and Dawn</u> Witherington, 2017 (REQUIRED later if you plan to take Marine Ecology, so its a good idea to get it now.)</u>

Top Hat

Your required textbook and embedded videos, questions, and discussions will be hosted on Top Hat in an interactive format. Assignments in Top Hat will be due each week and a subscription is required for each student. You'll need to purchase access either through UF All-Access or directly through Top Hat. You'll enter the course on Top Hat through the individual assignments. Here is a guide to getting started in Top Hat: https://success.tophat.com/s/article/Student-Top-Hat-Overview-and-Getting-Started-Guide, and here instructions for enrolling in the are specific course through Canvas: https://support.tophat.com/s/article/Student-LTI-Course-Enrollment-Canvas. **IMPORTANT:** Especially those who already have Top Hat accounts - please ensure that you have access until the end of this semester, August 9! Top Hat is required, and a lapsing account is not an acceptable excuse for missed homework.

E-learning

Please set your preferences in E-Learning/Canvas so that you receive timely notifications of course announcements and other information. I will be communicating extensively and often with you using Canvas announcements which you can set to come to your email. When in doubt, go to our Canvas page and click "Announcements" for all of the latest information and assignments.

Lab Materials

Lab will be specimen and dissection based. All dissection materials will be provided. In addition to practical work learning and dissecting specimens, you will also be keeping a lab/field notebook and drawing specimens; these are essential skills that we will practice in this course. You will need: drawing supplies (I suggest drawing <u>pencils</u> and <u>paper</u> if you can get them or have them, but regular notebook or printer paper and standard writing pencils will do, too), a <u>notebook</u> in which to keep your lab notes and drawings – can be bound or a binder with loose-leaf paper, and ideally a <u>waterproof field notebook</u> if you're going to be able to make some field forays. You may also wish to have <u>colored pencils</u>, though adding color to drawings is optional. Alternatively, you might wish to use a tablet to draw digitally – whatever you are comfortable using to make high-quality hand drawings. Do NOT use images from your camera/phone or take images from the internet as this will be considered academic dishonesty.

CONTACTING YOUR INSTRUCTOR

Student Office Hours

I am available for one-on-one help on more detailed questions about course content, grades, etc., or if you just want to pop on to say hi!

- Office hours are <u>BY APPOINTMENT</u>, available Tuesdays 1-2 pm and Wednesdays 1 3 PM.
- Please allow at least 24 hours in between making your appointment and the appointment time so that I have time to check notifications and know to be there. If not, I cannot guarantee that I will see your appointment reservation in time.
- Meetings will be at my <u>Zoom link</u> or in person in Carr 522. I'm also usually available after class and during lab! Email for an appointment at another time if needed.

Course Questions Forum

For questions that may pertain to the entire class (about an assignment, about course policies), please use the <u>Course Questions Forum</u> on Canvas. Also, don't forget to see if your question has already been answered. Please help classmates, too, if you know the answer!

Canvas Inbox/Email

I will respond to questions that are individual in nature (grades, absences, etc) within 24 hrs during the week. After 5 on Fri I will not respond until Mon. Be professional in tone and expectations. Please do not expect an immediate response. Please do your best to avoid asking me questions whose answers you can find in the <u>syllabus</u>, <u>announcements</u>, or in the <u>Course Questions Forum</u>.

ASSESSMENTS & GRADING

I will make every effort to have each assignment graded and posted within one week of the due date.

Grade Component	Description	Percentage
Exams	4 non-cumulative exams on topics discussed in lecture and assigned readings. They will be closed-book exams with a variety of question types. Exam dates are included on the schedule. Please check the schedule for exams ahead of time and clear your schedule at those times. Make-ups are not allowed due to work or other personal obligations.	40%
Lab Assignments & Projects	Single or multi-week projects will be assigned that can be completed during the lab period, in field environments (including in your backyard or park), or at public zoos/aquaria (optional). Labs are due on Sundays each week and will be submitted online.	25%
Lab Exams	There will be 2 lab practical exams (see schedule).	20%
Top Hat Homework & Discussion Participation	Each week's assignments are due at 11:59 PM the Sunday after the assigned week. However, it will NOT be possible to finish all assignments at the last minute. I suggest you read each chapter and complete the embedded questions on Monday (before lecture on Tuesday). Do NOT wait until Saturday night. Saturday night internet or website issues are not a valid excuse for late assignments.	15%

Grading Scale

Percent	Grade	Percent	Grade
≥ 93.00%	А	≥ 73.00%	С
≥ 90.00%	A-	≥ 70.00%	C-
≥ 87.00%	B+	≥ 67.00%	D+
≥ 83.00%	В	≥ 63.00%	D
≥ 80.00%	B-	≥ 60.00%	D-
≥ 77.00%	C+	< 60.00%	E

"Life Happens" Policy

Everyone has an off week sometimes! Because of this, I'll be **dropping your lowest 2 Top Hat** assignment grades.

If you miss assignments, don't worry about asking for extensions UNLESS you already have the maximum number of zeros allowed under this policy which will automatically be dropped from your grade. In the event that you miss additional assignment due dates in excess of those allowed by this policy AND your absence is excusable based on UF policy, please see the Attendance & Make-ups section below for guidelines on extension requests.

ATTENDANCE & MAKE-UPS

This is a small class, and if you aren't coming to class or completing assignments on time, I'll worry! If you have a planned conflict, discuss it with me in advance. If there is an unforeseen circumstance, please let me know as soon as possible. I know that special circumstances may come up, and we will stay in communication to ensure your success. Please see the UF policy for excused absences here: https://catalog.ufl.edu/UGRD/academic-regulations/attendance-policies/

For some assignments, extensions MAY be granted if and only if you have already received other zeros that will be dropped based on the "Life Happens" policy (See the Assessments and Grading section above). You must have a documented excused absence lasting at least the three days before and including the due date. For example, if the assignment is due Sunday, your documentation of absence must include Friday, Saturday, and Sunday to be granted an extension. Submit documentation here: https://care.dso.ufl.edu/instructor-notifications/ and request a letter be sent to the instructor, then message me in Canvas after your letter has been sent to let me know what assignments you are requesting extensions on, and we will discuss any modified due dates.

No make-up exams without prior permission or documentation of illness. Students missing an exam due to a university-approved excused absence should let the instructor know in advance. In case of illness or emergency on exam day, students must submit documentation here: <u>https://care.dso.ufl.edu/instructor-notifications/</u> and request a letter be sent to the instructor.

ACADEMIC HONESTY

Any acts of cheating, plagiarism, or other forms of academic dishonesty will result in, at minimum, **a 0** grade for the assignment or test AND a reduction in the course grade by 1 letter. Sharing information about tests or homework answers with students in future or past classes, or posting on social media information about same, is a serious act of academic dishonesty. Sharing answers for homework, exams, etc. with others (ex. Groupme, Course Hero) or receiving same is cheating. Turing in assignments that match classmates' is plagiarism. **Unauthorized or undisclosed use of generative AI is plagiarism**. If you witness any instances of academic dishonesty in this class, notify the instructor.

UF students are bound by The Honor Pledge which states, "*We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity by abiding by the Student Honor Code. On all work submitted for credit by Students at the University of Florida, the following pledge is either required or implied: "On my honor, I have neither given nor received unauthorized aid in doing this assignment." The Honor Code specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. For additional information on academic honesty, please refer to the UF student honor code at: https://policy.ufl.edu/regulation/4-040/*

ACCOMMODATIONS FOR STUDENTS WITH DISABILITIES

Students with disabilities requesting accommodations should first register with the Disability Resource Center in Reid Hall (352-392-8565) by providing appropriate documentation. Please see the website for more information at: <u>https://disability.ufl.edu/</u>. Once registered, students will receive an accommodation letter that must be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester.

WITHDRAWAL POLICY

The add/drop deadline and the last day to withdraw from a course with a W on your transcript are listed online here: Dates and Deadlines: <u>https://catalog.ufl.edu/UGRD/dates-deadlines/</u>

GETTING HELP

If you don't understand something in the **course content or are concerned about a grade**, talk to me ASAP. Do not wait until a failed exam!

However, I **cannot** solve most technical issues because I can't access your account and I am just super not a tech wizard. Instead, please see the resources below for technical difficulties.

Technical Difficulties

Any requests for make-ups due to technical issues must be accompanied by the ticket number received from the Help Desk when the problem was reported to them. The ticket number will document the time and date of the problem. You should e-mail your instructor within 24 hours of the technical difficulty if you wish to request a make-up.

- **UF IT Help Desk:** For general troubleshooting or issues with **Canvas**, the Help Desk has your back! <u>https://it.ufl.edu/helpdesk/</u>. Available by phone 24/7 at (352) 392-4357, email <u>helpdesk@ufl.edu</u>, or connect via chat on the website. Walk-in at The Hub available, too.
- **Top Hat:** For issues with your Top Hat account, see the support center website: <u>https://success.tophat.com/s/</u>. There's a chat on the website as well as many helpful support articles. They can be contacted by phone during business hours at (888) 663-5491.

Health and Wellness

- **U Matter, We Care**: ASKING FOR HELP IS A SIGN OF STRENGTH. If you or a friend is in distress, contact If you or someone you know is in distress, please contact counseling 24/7 352-392-1575, or visit <u>umatter.ufl.edu</u> to refer or report a concern and a team member will reach out to the student in distress. The Care Team can help connect students to the many other helping resources available including, but not limited to, Victim Advocates, Housing staff, and the Counseling and Wellness Center. In case of emergency, call 911.
- **Counseling and Wellness Center**: Visit <u>counseling.ufl.edu</u> or call 352-392-1575 for information on crisis services as well as non-crisis services. 4th floor of Peabody Hall.
- **Student Health Care Center:** Call 352-392-1161 for 24/7 information to help you find the care you need, or visit <u>shcc.ufl.edu</u>.
- University Police Department: Visit <u>police.ufl.edu</u> or call 352-392-1111 (or 9-1-1 for emergencies).
- **UF Health Shands Emergency Room/Trauma Center**: For immediate medical care in Gainesville, call 352-733-0111 or go to the emergency room at 1515 SW Archer Road, Gainesville, FL 32608; <u>ufhealth.org/emergency-room-trauma-center</u>.

Academic and Student Support

- **Career Connections Center**: 352-392-1601. Career assistance and counseling services <u>career.ufl.edu/</u>.
- Library Support: Various ways to receive assistance with respect to using the libraries or finding resources. <u>cms.uflib.ufl.edu/ask</u>
- CLAS Academic Resources: 352-392-2010. General study skills and tutoring: <u>https://academicresources.clas.ufl.edu/</u>
- Writing Studio: 352-846-1138. Help brainstorming, formatting, and writing papers: <u>writing.ufl.edu/writing-studio/</u>
- Dean of Students Office: 352-392-1261. https://www.dso.ufl.edu

SCHEDULE

Due Dates: All assignments for each week are due on Sundays at 11:59 PM except for a few exceptions where noted on Canvas.

Week Number	Week of	Reading & Lecture Topic	Ch.	Lab
1	5/13	Introduction Body plans, reproduction, development, & our own phylum	1 2	Lab 1: Hemichordates and Chordates
2	5/20	Phylum Chordata Phylum Hemichordata	3 4	Lab 2: Echinodermata
Optional Field Trip: Seahorse Key Marine Lab Open House 1				
3	5/27	Phylum Echinodermata	5	Lab 3: Field Trip! TBA

Week Number	Week of	Reading & Lecture Topic	Ch.	Lab	
		The Lophophorates: Phylum Phoronida, Phylum Brachiopoda, & Phylum Bryozoa	6		
EXAM 1 (EXAM 1 (CH 1 – 6) TUEDAY 6/4				
4	6/3	Phylum Mollusca Part 1 Phylum Mollusca Part 2	7 8	Lab 4: Mollusca	
5	6/10	Phylum Mollusca Part 3	9	Lab 5: Annelida and Nemertea	
6	6/17	Phylum Annelida Echiurans and Sipunculids, where do they belong?	10 11	LAB EXAM 1	
		Phylum Nemertea.	12		
SUMMER	BREAK	WEEK OF 6/24			
EXAM 2 ('СН 7 — 1	2) TUESDAY 7/2			
7	7/1	Phylum Nematoda, Phylum Onychophora, Phylum Tardigrada, and Phylum Priapulida Phylum Arthropoda Part 1: Introduction Phylum Arthropoda Part 2: Subphylum Chelicerata	13 14 15	NO LAB: Independence Day	
Optional Field Trip: Seahorse Key Marine Lab Open House 2					
8	7/8	Phylum Arthropoda: Subphylum Hexapoda (Insects and friends)	16	Lab 6: Arthropoda and Friends 1	
9	7/15	Phylum Arthropoda: Subphylum Crustacea	17	Lab 7: Arthropoda 2 Hexapods	
EXAM 3 (CH 13 – 17) TUESDAY 7/23					
10	7/22	Phylum Platyhelminthes Phylum Ctenophora	18 19	Lab 8: Arthropods 3 Crustacea	
11	7/29	Phylum Cnidaria Phylum Porifera	20 21	Lab 9: Platyhelminthes, Ctenophora, Cnidaria, Porifera	

Week Number	Week of	Reading & Lecture Topic	Ch.	Lab
12	8/5	Exam 4; NO LECTURE THURSDAY		LAB EXAM 2
EXAM 4 (CH 18 – 21) TUESDAY 8/6				

TIPS FOR SUCCESS



Attend and Participate: Studies show that the more you discuss, draw, analyze, and actively participate in class, the more you learn!



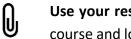
Read: Read assigned chapters before lectures. Then use lectures to hone understanding and apply your knowledge.



Take notes: Do not be a passive listener! Take active notes during class, especially on questions asked in the lecture.



Ask questions: Ask immediately. Don't be afraid to ask me to go over something again! Chances are, others need a clarification, too.



Use your resources: Use this syllabus to answer questions about the course and locate help when you need it. Use Canvas. Use each other!



Plan ahead: Plan to devote ~15 hrs/wk, including 10 hrs for lecture, discussion, and lab and 5 hrs on reading, assignments, and studying. A 4 credit-hour class takes ~180 hours of work over a semester.



Study effectively: Visit learningscientists.org to learn the 6 strategies for effective learning. Guess what the first one is? NO CRAMMING! Also check out videos from Academic Resources!



I care: I am deeply invested in YOU and your happiness and success. Email me, make an appointment for student office hours, etc. to go over course material, talk about life, or just say hi!

GATOREVALS

Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Guidance on how to give is available at https://gatorevals.aa.ufl.edu/students/Links to an external site.. You'll be notified when the evaluation period opens, and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via https://ufl.bluera.com/ufl/Links to an external site.. Summaries of course evaluation results are available to students at https://gatorevals.aa.ufl.edu/public-results/