Insect Research CURE
ENY 2890
Fall 2023 (3 credits)

This is a course-based undergraduate research experience (CURE) that bridges the classroom & the research lab. You will become part of a collaborative research team and use RNA sequencing to map the expression of chemoreceptors in the white-lined sphinx moth, *Hyles lineata*, which will shed light on the evolution of chemosensation in this group. Through this immersive, hands-on research experience, students may generate publishable data & contribute new knowledge to the field of entomology. We’ll also discuss key issues & practices in research, such as ethics, objectivity, international collaborations, & science communication. This course is a great introduction to research, especially for students interested in entomology, molecular biology, neurobiology, and evolution. Committed, hard-working students will leave the course well-prepared to join research teams at UF and beyond.

This course fulfills a curriculum requirement for the International Scholars Program: internationalcenter.ufl.edu/international-scholars-program

*Catalog description:* A classroom undergraduate research experience (CURE) which bridges the divide between the classroom and the science laboratory and prepares for advanced opportunities in entomological science. Become part of an entomology research team, collecting publishable data on insect evolution, ecology, and systematics.

**Student Learning Outcomes**

By the end of the course, students will be able to:

- Explain the scientific method and best practices for conducting scientific research.
- Identify key challenges that scientists encounter when conducting research and assess strategies to mitigate them.
- Critically read and evaluate primary scientific literature.
- Accurately collect, analyze, and interpret scientific data.
- Effectively communicate the findings of their research to both the scientific community and general public.
- Explain the benefits of international research and strategies for effectively working with scientists from other cultures.
- Reflect on their personal career goals and identify resources & opportunities for future research on campus and beyond.
We are fortunate to have an excellent teaching assistant joining us this semester; do not hesitate to contact your TA if you have any questions about the course:

Yichen Li
Graduate Teaching Assistant
Email: yli10@ufl.edu
Office Hours: By email appointment

For our project, we may also collaborate with other researchers in the UF Entomology & Nematology Department and beyond. At several points during the semester, these collaborators may join our class sessions and share their expertise with us.

Readings & Course Materials

Readings & Videos: There is no textbook for this course; instead, selected articles and other readings will be posted on Canvas. Students are expected to complete all required readings before the corresponding class session. You may also be required to watch brief videos before class, which will be posted on Canvas as well.

Computer Requirement: All students must have regular access to a computer with a reliable internet connection to access assignments and other course materials on Canvas. A desktop or laptop computer is also required for data analysis; the analysis software cannot be run on tablets or mobile phones. Laptops are recommended so that you may work on your analyses during class.

Communication & Conduct

Meeting Policy: If you need assistance with any aspect of the course, we encourage you to come to our drop-in office hours (details on Page 1 of this syllabus). Alternatively, you can schedule a 1-on-1 meeting with any of the instructors. You can request a meeting with Dr. Auletta via Calendly (http://calendly.com/anthonyauletta) and with all other instructors via email. Outside of drop-in hours, email is our preferred method of contact. We will do our best to respond to messages within 48 hours (not including weekends or holidays). As a courtesy, please check the syllabus and Canvas before reaching out; answers to many of your questions can be found there!

Canvas: Important announcements and updates will be regularly posted to the course Canvas website, so be sure to check Canvas frequently! To ensure that you do not miss anything, please ensure that your Canvas profile is set to receive notifications.

Email Accounts: It is UF policy that you use your GatorLink account or Canvas when emailing your instructors; we will not answer emails sent from other accounts (e.g., personal Gmail, etc).
Professional Conduct: All members of the class are expected to conduct themselves in a professional and respectful manner at all times. Please use appropriate etiquette when interacting with your peers and instructors, including during class, on Canvas, and via email. Students who behave disrespectfully or disruptively will be reported to the Dean of Students Office.

Projects & Assignments

Quizzes: There will be several short online quizzes throughout the semester (see Canvas for dates). Some of these quizzes will review important concepts that we’ve covered in class, while others will be based on the required readings/videos and are designed to help you prepare for our in-class discussions.

Reflections: Throughout the semester, you will be asked to submit brief written reflections via Canvas. The goal of these assignments is to help you expand on our discussions and think deeply about what it means to be a scientist. For some reflections, you may instead be asked to analyze a scientific paper relating to our research or to write up a short progress report on your project.

Lab Notebook: You will be required to maintain a digital lab notebook throughout the semester, in which you will record your data/analyses and other notes related to our experiments. Proper lab notebook protocol will be discussed in class. The lab notebook will be checked for completeness and accuracy three times during the semester (two preliminary checks and one final evaluation).

Research Poster: As a capstone project, each research group will design a scientific poster that highlights their experimental design and preliminary findings. Specific poster guidelines will be discussed in class. Students will present their posters in a symposium at the end of the semester.

Science Across Borders Assignment: One of the major themes in this course is the value of global collaborations in science. To explore this topic in more depth, you will conduct an interview with an international researcher and use that interview to write a reflective essay on the benefits and challenges of conducting research across borders. Detailed information about this assignment will be discussed in class, and the instructor will help connect you with a scientist for the interview.

Group Agreement & Evaluations: At the beginning of the semester, each research group will submit a written agreement that outlines their shared expectations for group work. Then, twice during the semester, you will evaluate your group members (including yourself!) based on how well they are following the agreement. This will allow the instructors to assess how well each group is functioning and help ensure that each group member contributes fairly to the project.

Extra Credit: Extra credit opportunities may be posted at the instructors’ discretion only. Any other extra work submitted in order to raise a grade will not be accepted and requests for additional extra credit will not be considered.
Submitting assignments: All assignments must be submitted electronically via Canvas unless otherwise noted. Emailed or paper submissions for Canvas assignments will not be accepted. You are responsible for ensuring that all your work is uploaded correctly and completely by the deadline. Corrupted files will be treated as missing work (= 0 grade) until they are reuploaded correctly and late penalties will apply if your resubmission is past the deadline. So, please always double check your files right after you upload them! If you experience technical problems when submitting your work in Canvas, contact the UF Computing Help Desk for assistance: https://helpdesk.ufl.edu.

Grading Policies

This course uses a points system for grading. The anticipated maximum that can be earned in the course is 650 points, distributed as follows:

- **Quizzes:** 60 pts (10 pts ea.)
- **Reflections:** 105 pts (15 pts ea.)
- **Lab Notebook:** 100 pts
- **Research Poster:** 200 pts
- **Science Across Borders:** 100 pts
- **Group Agreement & Evals:** 20 pts
- **Class Participation:** 65 pts

At the end of the semester, your total course grade will be converted to a letter grade using the scale below:

- 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+
- 63 - 66.9% = D
- 60 - 62.9% = D-
- below 60% = E

Please note that the instructors do not round up grades—requests to do so will not be considered.

For current UF policies on assigning grade points, consult the following policy website: https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx

Disputing a grade: If you wish to dispute a grade for any exam/assignment, you must contact the instructors in writing after the assignment has been returned. In your message, you must include a specific explanation for why you think the grade is incorrect and how you think it should be changed. An instructor will then arrange a meeting with you to discuss the issue and determine whether or not the grade should be changed. The grade assigned following this meeting will be final.
Attendance & Participation

Requirements for class attendance and make-up exams, assignments and other work are consistent with university policies that can be found at: https://catalog.ufl.edu/UGRD/academic-regulations/attendance-policies.

Expectations for Attendance & Participation: Due to the hands-on nature of this course, attendance in class is critically important. If you are absent, you will not be able to fully work on your research project, collaborate with your teammates, or contribute to class discussions. Thus, everyone is expected to attend every class session on time and stay for the entire session. Students who miss more than 30% of class sessions will earn an E (= failing grade) in the course. You are also expected to be fully prepared for and engaged in each session—this includes completing all required readings/videos, submitting all assignments on time, paying attention during class, and actively participating in the research project and all other class activities. Participation in our class sessions is worth 65 points (=10% of your final course grade). Your participation grade will be calculated based on the percentage of class sessions in which you are present for the entire time and complete the assigned in-class activities.

Absence Policy: If you need to miss a class due to an excusable absence, you must let the instructors know as far in advance as possible to discuss arrangements for making up missed work. A list of excusable reasons for missing class can be found on the Attendance Policy website linked above. In the case of an unforeseen emergency, you should contact the instructors as soon as you can afterwards. The instructors may require you to submit appropriate documentation of your absence before you are allowed to make up missed work; you can submit the documentation via the Dean of Students’ Instructor Notification portal: https://care.dso.ufl.edu/instructor-notifications.

If you are absent for any other reason or fail to notify the instructors of your absence in a timely manner, you will earn a 0 for any work that you missed and make-up work will not be accepted. Please note that personal travel (e.g., a vacation) is not considered an excusable absence, and thus students will earn a 0 for any work missed due to personal travel during the course.

Since this is a face-to-face course, students will not have the option to join remotely via Zoom under any circumstances. The instructors will also not record the class sessions. If you do miss a class meeting, it will be your responsibility to contact a classmate for notes from that session; the instructors will not provide notes. If the content is still unclear after you review your classmate’s notes (and the required readings/other materials on Canvas), please don’t hesitate to come to office hours or schedule a meeting with an instructor. We ask that you please come to that meeting prepared to discuss the specific questions you have.

Work Outside of Class: In addition to working on the research project in class, you will be expected to allocate adequate time outside of class to work on data analysis and other aspects of the project!
Late Work & Make-Up Assignments / Exams

Policy on Late Work: All assignments are due by the date and time indicated on the assignment page in Canvas. If you submit an assignment after this deadline, 20% of its total point value will be deducted for every day that it is late. We understand that sometimes unexpected situations arise, and so every student will have 3 late work passes that they can use to submit an assignment up to 24 hours after the deadline with no penalty and no questions asked. These passes will be applied to the first three assignments that you turn in late during the course. Please note that credit cannot be earned for any assignment after it has been graded and returned to the rest of the class. Late work will also not be accepted after the deadline for the final assignment in the course.

There are several special assignments that will not be accepted late; you cannot use a late work pass on those assignments and will earn a 0 if they are submitted after the deadline. These assignments are: (1) the final research poster, because we need sufficient time to print them for the symposium, and (2) quizzes that are intended to prepare you for an in-class activity, as there is no educational value in submitting such assignments after the corresponding class session.

Extensions: Extensions on assignments will be considered on a case-by-case basis (and granted at the instructor’s discretion) only in the event of unforeseen emergencies. In such a case, you must contact the instructors as soon as possible to discuss your situation. The instructors may require you to submit appropriate documentation of your situation (which you can do via the Dean of Students’ Instructor Notification portal: https://care.dso.ufl.edu/instructor-notifications). No extensions will be granted for students who miss a deadline for any other reason or who do not reach out to the instructors in a timely manner.

A note about deadlines: Remember, the due date doesn’t have to be the “do” date! In other words, we encourage you to work on your assignments in advance—don’t wait until right before the deadline to submit your work! Last-minute computer problems or other non-emergency situations that arise right before the deadline are not valid reasons for requesting an extension. Such requests will not be considered—late penalties will still be applied to your work if it is not submitted before the deadline (unless you have a late work pass remaining).

Make-Up Assignments: If you miss class due to an excusable absence, it is your responsibility to contact the instructor as soon as possible to discuss options for making up the work that you missed. As noted above, the instructors may ask for valid documentation of your absence before allowing make-up work to be submitted. Make-up assignments will not be provided for students who miss class for unexcused absences or who fail to make arrangements with the instructor in a reasonable time frame.
Below is a tentative* schedule of topics & major assignments for the semester. Due dates for minor assignments (e.g., quizzes and reflections) will be available on Canvas, so be sure to check there each week! Readings/videos for each session will also be posted on Canvas and must be completed before the start of class. All assignments must be submitted via Canvas by 11:59pm on the due date (unless indicated otherwise).

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<td>Data Collection &amp; Analysis</td>
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List of Important Dates

Key dates to remember are below—be sure to add them to your calendar now! Due dates for other assignments are listed in the Course Schedule above and/or on Canvas.

- September 4: Labor Day (no class)
- October 11: Research Poster Abstract due
- November 1: Science Across Borders Interview Transcript due
- November 8: Research Poster Draft due
- November 15: Science Across Borders Final Essay due
- November 22 - 25: Thanksgiving Break (no class)
- November 28: Final Research Poster due (for printing)
- December 6: Research Poster Symposium; Final Lab Notebook Evaluation

Laboratory Guidelines

Everyone is required to follow all lab safety procedures and other lab guidelines provided by the instructors. These procedures will be clearly communicated via Canvas and/or during class. While in the laboratory, all students must wear closed-toed shoes. Also note that food and beverages are not permitted in the lab. During the course, you may handle specimens and use microscopes or other lab equipment; please treat these specimens and instruments with care! Always ask an instructor if you are unsure about how to use an instrument. Students who do not adhere to these guidelines will be dismissed from the lab and considered absent for that day, and may also be reported to the Dean of Students Office for misconduct. You may also be liable for any damages to lab equipment that result from your negligence or misuse.
Policy on Academic Honesty & Integrity

As a student at the University of Florida, you have committed yourself to uphold the **Honor Code**, which includes the following pledge: “We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity.” You are expected to exhibit behavior consistent with this commitment to the UF academic community, and on all work submitted for credit 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."

It is assumed that you will complete all work independently in each course unless the instructor provides explicit permission for you to collaborate on course tasks (e.g., assignments, papers, quizzes, exams). Furthermore, as part of your obligation to uphold the Honor Code, you should report any condition that facilitates academic misconduct to appropriate personnel. It is your individual responsibility to know and comply with all university policies and procedures regarding academic integrity and the Student Honor Code. Violations of the Honor Code at the University of Florida will not be tolerated. Violations will be reported to the Dean of Students Office for consideration of disciplinary action. For more information regarding the Student Honor Code, please see: [http://www.dso.ufl.edu/sccr/process/student-conduct-honor-code](http://www.dso.ufl.edu/sccr/process/student-conduct-honor-code).

**Instructors’ note:** Any action that subverts the learning goals of the course (or a particular course activity) will be treated as academic misconduct and reported to the Dean of Students Office. This includes—but is not limited to—cheating or assisting others in cheating, plagiarism (i.e., misrepresenting someone else’s work as your own, whether it is copied directly or paraphrased), self-plagiarism (i.e., copying/reusing work that you have submitted previously), using ChatGPT or other AI tools for assignments without instructor permission, collaborating with others when it is not permitted, fabricating data, lying to an instructor, and bad faith attempts to undermine the intent of a learning activity. In addition to being reported to the Dean of Students Office, a student will earn a grade of 0 on any assignment that is plagiarized or that otherwise violates these academic honesty policies. This 0 grade is irreversible—it cannot be dropped and the assignment cannot be resubmitted for a different grade. After the first offense, any subsequent incidents of plagiarism or academic honesty will result in an automatic E (= failing grade) in the course. Please see the Guide to Academic Honesty & Integrity on Canvas for more information.

Accommodations for Students with Disabilities

The **Disability Resource Center** coordinates the needed accommodations of students with disabilities. This includes registering disabilities, recommending academic accommodations within the classroom, accessing special adaptive computer equipment, providing interpretation services, and mediating faculty-student disability related issues. Students requesting classroom accommodation must first register with the Dean of Students Office. The Dean of Students Office will provide documentation to the student who must then provide this documentation to the instructor when requesting accommodation.
Instructors’ note: We want you to succeed in this course! To ensure your accommodations are in place when you need them, please be sure to have your DRC accommodation letter sent to us as early as possible—ideally at the beginning of the semester.

Campus Helping Resources

Students experiencing crises or personal problems that interfere with their general wellbeing are encouraged to utilize the university's counseling resources. The Counseling & Wellness Center provides confidential counseling services at no cost for currently enrolled students. Resources are available on campus for students having personal problems or lacking clear career or academic goals, which interfere with their academic performance:

University Counseling & Wellness Center
Counseling Services, Groups and Workshops, Outreach and Consultation, Self-Help Library, Wellness Coaching
3190 Radio Road, Gainesville, FL, 32611 ✦ (352) 392-1575 ✦ https://counseling.ufl.edu

Other UF campus resources include:

U Matter, We Care: http://umatter.ufl.edu

Academic Resources (includes tutoring services, study skills workshops, 1-on-1 consultations, and more): https://academicresources.clas.ufl.edu

Career Connections Center: Reitz Student Union- First Floor; (352) 392-1601; http://career.ufl.edu

Student Success Initiative: http://studentsuccess.ufl.edu

Student Complaints: Complaints regarding on-campus courses may be filed at https://sccr.dso.ufl.edu/policies/student-honor-code-studentconduct-code. For online courses, please see https://distance.ufl.edu/getting-help/student-complaint-process.

Policy on Recording Class Sessions

Students are allowed to record video or audio of class lectures. However, the purposes for which these recordings may be used are strictly controlled. The only allowable purposes are: (1) for personal educational use, (2) in connection with a complaint to the university, or (3) as evidence in, or in preparation for, a criminal or civil proceeding. All other purposes are prohibited. Specifically, students may not publish recorded lectures without the written consent of the instructor.
A “class lecture” is an educational presentation intended to inform or teach enrolled students about a particular subject, including any instructor-led discussions that form part of the presentation, and delivered by any instructor hired or appointed by the University, or by a guest instructor, as part of a University of Florida course. A class lecture does not include lab sessions, student presentations, clinical presentations such as patient history, academic exercises involving solely student participation, assessments (quizzes, tests, exams), field trips, private conversations between students in the class or between a student and an instructor during a class session.

Publication without permission of the instructor is prohibited. To “publish” means to share, transmit, circulate, distribute, or provide access to a recording, regardless of format or medium, to another person (or persons), including but not limited to another student within the same class section. Additionally, a recording, or transcript of a recording, is considered published if it is posted on or uploaded to, in whole or in part, any media platform, including but not limited to social media, book, magazine, newspaper, leaflet, or third-party note/tutoring services. A student who publishes a recording without written consent may be subject to a civil cause of action instituted by a person injured by the publication and/or discipline under UF Regulation 4.040 Student Honor Code and Student Conduct Code.

Use of Electronic Devices

You may use personal electronic devices such as laptops or tablets in class, unless otherwise noted by the instructor. However, it is your responsibility to make sure that you use your devices in a professional and courteous manner. This includes:

- Limiting device use only to activities that are directly related to your learning of course material, such as taking notes or working on your analyses. Using your devices for any other purpose is not allowed in the classroom; doing so is disrespectful to the instructor, distracting to your fellow students, and robs you of a quality learning experience.
- Keeping your devices muted at all times to prevent disrupting others around you.
- Quietly stepping out into the hall if you must take a call or contact someone. We understand that emergencies can happen and will not prevent you from attending to them, but we also ask that you try to minimize disruptions to your peers.

If your device use is disruptive or inappropriate, you will be asked to put away your device. Students who repeatedly violate this policy will no longer be allowed to use devices in class and may be reported to the Dean of Students Office.
Software Use

All faculty, staff and students of the university are required and expected to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against university policies and rules, disciplinary action will be taken as appropriate.

During the course, you will use HiPerGator to analyze the data for your research project. By participating in this course, you agree to the following policies regarding HiPerGator:

- **Acceptable Use:** I acknowledge that the access to the HPC resources operated by UF Research Computing is subject to the UF Acceptable Use Policy at https://it.ufl.edu/policies/acceptable-use/acceptable-use-policy/ and the Research Computing policies at https://www.rc.ufl.edu/documentation/procedures/ and that I am responsible for following these policies.

- **Restricted Data:** I also certify that using restricted data and software on the HPC resources requires extra steps described at UFRC Policies and at UFRC Export Policies, and that I will notify both my account sponsor and the Office of Research (Research Compliance) and Research Computing at https://support.rc.ufl.edu when I am working with such data.

Course Evaluations

Student assessment of instruction is an important part of efforts to improve teaching and learning. At the end of the semester, students are expected to provide feedback on the quality of instruction in this course using a standard set of university and college criteria. 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 feedback in a professional and respectful manner is available at https://gatorevals.aa.ufl.edu/students. Students will 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. Summaries of course evaluation results are available to students at: https://gatorevals.aa.ufl.edu/public-results.
It is your responsibility to ensure that you fully understand the policies outlined in this syllabus as well as the policies of the university as they relate to this course. By remaining enrolled in this course, you agree that you have read and understood all of these policies and that you will be held accountable to them.

At their discretion, the instructors may change aspects of the course during the semester to accommodate new opportunities, unforeseen disruptions, or other circumstances. These changes will be communicated clearly in class and through Canvas. The current version of the syllabus will always be available on our course’s Canvas website. It is your responsibility to ensure that you are following the most recent version of the syllabus.

If you have any questions, please contact the instructors as soon as possible (preferably at the beginning of the course)!

Cover Photo: White-lined sphix moth, *Hyles lineata*, feeding on periwinkle by Charles Jellison ([flickr.com/photos/charles25001](http://flickr.com/photos/charles25001))