SWS 6932 (graduate)
Soil Biology Management Lab

Instructor:

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Course Format:

Times and Location:

- Lab (Spring 2026): 12:50 pm to 3:50 pm Thursday; McCarty Hall B Room 3108

Student hours: By appointment

Credit hours: 1

Enrollment Cap: 15

Format:

- This course is offered as a co-taught undergraduate and graduate seminar.
- Hands-on exercises on soil biology management projects: One laboratory session per week. The lab will be delivered in-person, and attendance is mandatory.
- Students enrolling in SWS6932-Soil Biology Management Lab must either be currently enrolled in the associated lecture course (SWS6932: Soil Biology Management) during the same academic year or have successfully completed the lecture course in previous years. Enrollment in this lab is optional. The lab course is designed to complement and enhance the material covered in the lecture course through hands-on, practical experience.

Prerequisites:

To enroll in SWS6932: Soil Biology Management Lab, students must be concurrently registered in SWS6932: Soil Biology Management or have completed SWS6932 in previous years.

Materials and Supplies Fee: None

Course web site:

UF Canvas course management system (eLearning): https://elearning.ufl.edu/

Required Technology/Software & How to Obtain Technology:

Technology Requirements Include:

1. Computer and Internet Access
   A reliable computer (Windows, macOS, or Linux) with consistent, high-speed internet access is necessary for all online activities and assignments.

2. R & RStudio Desktop
   We will use R programming language and RStudio Desktop for data analysis in this class.
   - Download (Free):
     R: https://cran.r-project.org/
     RStudio Desktop (now "Posit Desktop"): https://posit.co/download/rstudio-desktop/
   - UF Apps Access: You may use RStudio directly through UF Apps: https://info.apps.ufl.edu/
   - Installation Instructions:
     Install R - Step-by-step
     Install RStudio Desktop

3. Required Peripherals
   Headphones or speakers for listening to lectures
   Microphone or headset for participating in discussions or group work

4. Additional Free Software & Online Tools
   - PDF Reader: Adobe Acrobat Reader: https://get.adobe.com/reader/
   - Web Browser: Latest version of Chrome, Firefox, Safari, or Edge (download here)
   - Office Suite: GatorCloud provides access to Microsoft Office 365: https://www.it.ufl.edu/services/gatorcloud-microsoft-office-online/

- UF Canvas: All course content and assignments will be accessed through e-Learning in Canvas: https://elearning.ufl.edu/
- Digital Collaboration For group work, UF provides GatorCloud Google Apps, Zoom (https://ufl.zoom.us/), and OneDrive (https://www.it.ufl.edu/services/gatorcloud-microsoft-office-online/).

5. Access to Library Resources and Databases
   The UF Libraries' online resources (journals, e-books, databases) can be accessed using your GatorLink credentials:
   https://cms.uflib.ufl.edu/accesssupport/onlineresources
   For help accessing materials, visit Ask a Librarian
   Assessment Proctoring and Academic Integrity

6. No-Cost or Low-Cost Technology Options
   UF Computer Labs: Multiple labs are available on campus, and resources can be found here: https://labs.at.ufl.edu/
   UF Technology Assistance: The university provides information on technology loans and internet hotspot access here: https://students.ufl.edu/keep-learning/.
   UF Libraries also offer equipment loans:
   https://cms.uflib.ufl.edu/usingthelibrary/equipment

7. Support
   For technical difficulties with UF systems, contact the UF Computing Help Desk: helpdesk.ufl.edu, Phone: (352) 392-HELP (4357).

Required Technology & Digital Information Literacy Skills

Technical skills may include:

- Using the learning management system
- Using email with attachments
- Creating and submitting files in commonly used word processing program formats
- Downloading and installing software
- Using spreadsheet programs
- Using presentation and graphics programs
- Using apps in digital devices
- Using web conferencing tools and software

Digital information literacy skills may include:

- Using online libraries and databases to locate and gather appropriate information
- Using computer networks to locate and store files or data
- Using online search tools for specific academic purposes, including the ability to use search criteria, keywords, and filters
- Analyzing digital information for credibility, currency, and bias (e.g., disinformation, misinformation)
- Properly citing information sources
- Preparing a presentation of research findings

Communication Guidelines

- Use Course Question Discussion Board, for general course questions that others may have.
- Use Canvas Inbox (messaging tool) for questions that are specific to your grades or submissions.
- Email & phone correspondence are for (1) setting a meeting time for office hours, (2) DRC accommodations; (3) emergency situations; or (4) highly sensitive situations.
- A respectful tone is used by all community members in all forms of communication.
- Written communication, both formal and informal, uses the official language of instruction rather than popular online abbreviations and graphic elements such as those sometimes used in social media.
- Video interactions reflect a respectful tone in verbal communications and body language.
- Spelling, punctuation, and grammar are correct.

Lab course description

The SWS6932: Soil Biology Management Lab is designed to provide students with hands-on experience in the practical applications of soil biology management. This lab course complements the theoretical concepts discussed in the lecture course, SWS6932: Soil Biology Management, by offering experimental investigation and data analysis opportunities in a greenhouse and laboratory setting. Students will gain practical skills in quantifying soil organisms, analyzing nutrient cycles, measuring crop phenotypes, and using advanced analytic tools for data interpretation.

Key components of the lab include the quantification of soil bacteria, fungi, archaea, and mycorrhizal fungi using qPCR and microscopic techniques, soil nitrogen, carbon, and phosphorus cycling gene analysis, soil nutrient evaluations, and crop analysis. Students

will also learn to use R packages and other advanced tools for data integration and interpretation.

Throughout the semester, students will undertake individual lab projects. Each project involves selecting a crop type, applying specific treatments (e.g., fertilization, soil bioassay, mycorrhizal inoculation, or environmental conditions), and conducting experiments with multiple replicates. This process will help students develop skills in experimental design, material preparation, data collection, analysis, and interpretation.

The lab culminates in a mini symposium where students present their research findings through a poster, showcasing their ability to integrate theoretical knowledge with practical experience. An optional short research report may also be prepared for potential publication.

Course goals (Course-level learning objectives):

1. **Advanced Experimental Design and Execution:** Graduate students will design and conduct more sophisticated experiments that involve a higher level of technical expertise, including precise material preparation, advanced experimental setups, and meticulous data collection and analysis.
2. **In-Depth Quantification and Data Integration:** Graduate students will employ advanced techniques in quantifying soil organisms and nutrient cycles, and integrate complex data sets using bioinformatics and AI-driven tools. They will exhibit proficiency in using R packages and other software for comprehensive data analysis.
3. **Critical Evaluation of Experimental Approaches:** Graduate students will demonstrate the ability to critically evaluate experimental methodologies and approaches, identifying limitations and suggesting improvements. They will incorporate interdisciplinary perspectives into their analysis, reflecting a higher level of understanding and critical thinking.
4. **Advanced Communication and Scholarly Dissemination:** Graduate students will present their research findings with greater depth and clarity through detailed scientific reports and sophisticated poster presentations at the mini symposium. They will be expected to provide a critical evaluation of their results, integrate interdisciplinary insights, and engage with peer reviews and feedback at a higher scholarly level.

Recommend textbook: None

Reading material:

The reading materials, including the protocols relevant to the class experiments will be provided during the first week of the course.

Lab Experiment and Analysis Overview

Core Components:

- Greenhouse and lab based hands-on exercise, data collection and analysis
- Quantification of soil organisms:
    - qPCR for total bacteria, total fungi, total archaea, and arbuscular mycorrhizal fungi (AMF)
    - Microscopic quantification of mycorrhizal colonization
- Quantification of soil nitrogen, carbon, and phosphorus cycling genes
- Soil nutrient analysis (dependent on budget)
- Crop phenotypic measurements
- Crop chemical analysis (dependent on budget)
- R packages and advanced analytic tools will be used for data analysis and data integration
- Data interpretation will be practiced through poster preparation and presentation at a mini symposium.
- Optional: Prepare a short research report for potential publication

Student Lab Project Design:

Each student will select:

- **One crop type:** E.g., Arabidopsis (model), tomato, soybean, corn, bahiagrass, pine seedling or others (crop seedlings will be provided by the instructor)
- **One treatment type** from the following:

Treatment Options:

1. **Fertilization:**

    - Comparison of soil organic matter (SOM), nitrogen fertilizer, and untreated control.
2. **Soil Bioassay:**
    - Soils collected from biologically treated vs. untreated fields.
    - Examples include rotational vs. conventional systems, AMF-treated vs. untreated soils, SOM-amended vs. unamended soils, or a student's own field project (if applicable).
3. **Mycorrhizal Inoculation:**
    - Inoculated with arbuscular mycorrhizal fungi (AMF), other beneficial endophyte or ectomycorrhizal fungi (EMF) vs. non-inoculated control.
4. **Environmental Conditions:**
    - Evaluation of treatments under contrasting environmental scenarios.
    - Example: drought stress vs. well-watered control.

Replication:

- Each student will conduct experiments using **4 replicates per treatment**, resulting in a total of **8 to 12 individual plant sets** per student.

Lab Topics & Schedule (15 Weeks Total): Hands-On Lab Sessions

- **Week 1:** Introduction to lab goals and overview of experimental design
- **Week 2:** Preparation of materials for experiments and experimental setup
- **Week 3:** Experimental setup (Continued)
- **Week 4:** Non-destructive plant observations
- **Week 5:** Non-destructive mini soil core collection *(Time Course 1)*
- **Week 6:** Molecular and microscopic analysis of soil microbes and functional genes *(Time Course 1 – Part A)*
- **Week 7:** Continued molecular and microscopic analysis *(Time Course 1 – Part B)*
- **Week 8:** No lab (midterm exam period)
- **Week 9:** Final harvest; collection of plant phenotypic data, soil, and plant samples *(Time Course 2)*
- **Week 10:** Molecular and microscopic analysis of soil and root microbes, nematodes *(Time Course 2 – Part A)*
- **Week 11:** Continued analysis of soil and root microbial functions *(Time Course 2 – Part B)*
- **Week 12:** Data analysis and poster preparation
- **Week 13:** Continued data analysis; final poster preparation and printing
- **Week 14:** Mini symposium: Poster presentations and peer/instructor evaluations
- **Week 15:** No lab (final exam period)

Lab Section Assignments

A hands-on activity will be proceeded for the lab section. Each student will take the lead in all phases of their own lab project, including material preparation, experimental setup, observation, measurement, data collection, and data analysis (Lab performance will be evaluated by the instructor, 20 points). At the end of the semester, students will participate in a mini symposium, where they will present their research findings through a poster session, engage with their peers' work, and receive evaluations from judges. The deadline to submit the final version to the instructor for printing is Thursday, Week 13.
In addition to the poster presentation, students are required to submit a scientific report as part of the final assessment. Detailed rubrics and formatting guidelines for the lab report, poster preparation, and presentation will be provided during Week 1 and made available on Canvas. The final lab report must be submitted via Canvas by 12PM (EST) on Friday of Week 13.

Graduate students are expected to demonstrate greater depth of analysis, critical evaluation of experimental approaches, and integration of interdisciplinary perspectives in their lab reports and presentations compared to undergraduate students.

Instructor Interaction Plan

To support your learning and ensure a productive online (lecture) experience, the following interaction plan will be in place:

- Office Hours and Appointments
  Scheduled Office Hours: I will be available each week during scheduled virtual office hours (details will be announced on Canvas). You are welcome to join the Zoom meeting for drop-in questions or discussions.
  Appointments: If you are unable to attend office hours, you may request an individual appointment. Please email me at least 24 hours in advance to arrange a suitable time.

- Communication Channels

Email: Please contact me via your UF email address for setting up meetings, DRC accommodations, emergency situations, or sensitive matters. I will respond within 24 hours on weekdays and within 48 hours on weekends or holidays. If you do not receive a reply within this timeframe, please follow up.
Canvas Inbox: For questions related to your grades or specific submissions, message me using the Canvas Inbox. Messages will be checked daily (Monday–Friday).
Discussion Board: For general course questions that may benefit other students, use the Course Question Discussion Board on Canvas. I will monitor and respond regularly.

- Announcements
  All-important course updates, reminders, and information will be posted through Canvas Announcements. Please check Canvas often to stay informed about deadlines, assignments, and course activities.

- Feedback on Assignments
  Feedback on graded assignments will be provided within one week of the submission deadline, unless otherwise noted. For major projects, detailed feedback will be given within two weeks.

- Engagement and Participation
  Active participation is encouraged in synchronous sessions (if scheduled), discussion boards, and during office hours. I will help facilitate and monitor online discussions to promote respectful and meaningful engagement.

- Emergency Communication
  For urgent situations impacting your participation in the course (such as health emergencies), please email me directly as soon as possible.

- Respectful Communication
  Please communicate professionally and courteously in all correspondence and discussion forums to maintain an inclusive and respectful learning environment.

If you have any questions about the Instructor Interaction Plan or need additional support, please do not hesitate to reach out to me.

Grading Policy

Grade Rubric

Grading rubrics for lab course activities and assignments will be provided in Week 1 and will also be available on Canvas.

Grades will be based on participation and assignment completion. There will be no exams. Student assessments will be graded using whole point increments only. Fractional scores (e.g., 0.1, 0.25, 0.5) will not be applied.

Leb section:

Lab performance = 20 points

A poster presentation = 40 points

A lab scientific report written = 40 points

Total = 100 points

Grading Scale: Final grade will result in weighted points

Course Points	≥95.0	≥90.0	≥85.0	≥80.0	≥75.0	≥70.0	≥65.0	≥60.0	≥55.0	≥50.0	≥45.0	<45.0
Lab Points	≥95.0	≥90.0	≥85.0	≥80.0	≥75.0	≥70.0	≥65.0	≥60.0	≥55.0	≥50.0	≥45.0	<45.0
Letter Grade	A	A-	B+	B	B-	C+	C	C-	D+	D	D-	E

Failing Grades	Course Points	Grade Points
E	0	0
WF	0	0
I	0	0
NG	0	0

Definitions

E = Failure
H = Deferred grade assigned only in approved sequential courses or flexible learning
I* / I = Incomplete
N* / NG = No grade reported
S = Satisfactory
U = Unsatisfactory
W = Withdrew
WF = Withdrew failing

Information on conversion between letter grade / grade points can be found and the University's grade policy can be found at https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx

Expectations and grading policy in this course

Students are expected to complete all assignments independently. Proper citation and acknowledgment of data and literature sources is required. Late submissions will result in point deductions as follows: lab poster submission and lab reports will incur a 10-point deduction if submitted within 24 hours late. Assignments more than 24 hours late will receive a zero.

All assignments must be submitted through the UF course website. Email submissions will not be accepted. For technical issues (e.g., Canvas access), please contact UF IT support for help.

Students will not be penalized for late submissions due to documented and approved

circumstances in accordance with UF policies on excused absences and make-up work (See UF Attendance Policies, and below "Attendance, absences policy)

Attendance, absences policy

Students are responsible for meeting all class objectives as outlined by the instructor. Absences starting from the first-class meeting. Acceptable reasons for missing class or not participating include personal illness, serious family emergencies, required academic activities (e.g., field trips, professional conferences), military service, severe weather conditions, religious observances, participation in official university activities and court-ordered obligations (e.g., jury duty or subpoenas). Other reasons also may be approved at the instructor's discretion. Students must be officially registered or approved to audit (with proof of audit fee payment) in order to attend class. The University Registrar provides official class rosters to instructors. If you fail to attend at least one of the first two class meetings or labs without notifying the department, you may be dropped from the course. However, do not assume you will be automatically dropped. The department will notify you if this occurs. You can request reinstatement on a space-available basis if you present documented evidence. The university recognizes the right of the individual professor to make attendance mandatory. After due warning, professors can prohibit further attendance and subsequently assign a failing grade for excessive absences. UF Attendance Policies

Religious holidays

The Florida Board of Education and state law govern university policy regarding observance of religious holidays. The following guidelines apply:

- Students, upon prior notification to their instructors, shall be excused from class or other scheduled academic activity to observe a religious holy day of their faith.
- Students shall be permitted a reasonable amount of time to make up the material or activities covered in their absence.
- Students shall not be penalized due to absence from class or other scheduled academic activity because of religious observances.
- If a faculty member is informed of or is aware that a significant number of students are likely to be absent from class because of religious observance, the faculty member should not schedule a major exam or other academic event at that time. A student who is to be excused from class for a religious observance is not required to provide a second party certification of the reason for the absence. Furthermore, a student who believes that he or she has been unreasonably denied an education benefit due to religious beliefs or practices may seek redress through the student's

grievance procedure.

Illness policy

If you miss classes or exams due to illness, you are responsible for notifying your instructors as soon as possible. You should contact your college by the deadline to drop a course for medical reasons. If you need to drop a course for medical reasons, you must contact your college before the published drop deadline. You may also petition the Dean of Students Office for a medical withdrawal. The university guidelines for medical excuse from class are maintained by the Student Health Care Center.

Twelve-day rule

Students involved in athletic or extracurricular activities may be absent for up to 12 scholastic days per semester without an academic penalty. A *scholastic day* refers to any day when regular classes are scheduled. Instructors are expected to be flexible with scheduling exams or assignments for students affected by this rule. The 12-day limit applies to individual students, not entire teams or groups. If a group's schedule would cause any student to exceed this limit, adjustments must be made to keep each student within the 12-day cap. Students who have been previously warned about excessive absences or unsatisfactory academic performance should not take additional absences, even if they have not yet reached the 12-day limit. It is the student's responsibility to maintain both academic performance and consistent attendance.

Also find the link for UF attendance policies: https://catalog.ufl.edu/UGRD/academic-regulations/attendance-policies/

Online course evaluation process

Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online. Students can complete evaluations in three ways:

1. The email they receive from GatorEvals,
2. Their Canvas course menu under GatorEvals, or
3. The central portal at https://my-ufl.bluera.com

Guidance on how to provide constructive feedback is available at https://gatorevals.aa.ufl.edu/students/. Students will be notified when the evaluation period

opens. Summaries of course evaluation results are available to students at https://gatorevals.aa.ufl.edu/public-results/.

Academic honesty

As a student at the University of Florida, you are expected to uphold the highest standards of integrity as outlined in the UF Honor Code. This 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." All work submitted for credit must reflect your own efforts unless the instructor has explicitly permitted collaboration. The following pledge is required or implied on all assignments: "On my honor, I have neither given nor received unauthorized aid in doing this assignment." You are responsible for understanding and adhering to all university policies related to academic integrity and the Student Honor Code. If you are aware of any situation that may promote academic misconduct, you are obligated to report it to the appropriate university personnel. Academic dishonesty will not be tolerated. Any violations will be reported to the Dean of Students' Office for possible disciplinary action.

For more information, please refer to:

- Student Conduct and Honor Code: http://www.dso.ufl.edu/sccr/process/student-conduct-honor-code
- Updated (2018) UF Student Honor and Code of Conduct: http://gatortimes.ufl.edu/2018/08/20/updated-uf-student-honor-and-student-code-of-conduct

Examples of Academic Integrity Violations

To ensure that you follow the Honor Code and uphold academic integrity, **do not**:

- Sell or share exam questions
- Copy and paste someone else's work into a discussion post (including GenAI output).
- Participate in any discussion app or group that shares answers and solutions to assignments.
- Reuse previously submitted assignments if not permitted.

Academic Integrity Help

Turnitin Draft Coach : This is a tool for UF students that provides feedback to help improve your academic writing and research skills. It can help with:

- **Unintentional plagiarism**: The Similarity Check tool compares your text to internet content, student papers, and academic journals to identify matches.

- **Citations**: The Citations Check tool identifies missing citations and references and suggests fixes.
- **Grammar**: The Grammar Guide tool finds grammar mistakes and suggests edits.

Artificial Intelligence Policy

There are no restrictions on software use for this class or its assignments. However, all University of Florida faculty, staff, and students are expected to comply with all laws and licensing agreements related to software use. Unauthorized use, copying, or distribution of software may result in legal consequences and is considered a violation of university regulations, subject to disciplinary action.

You may use generative AI programs (such as ChatGPT or similar tools) to help generate ideas and brainstorm, unless otherwise specified in individual assignment instructions. Be aware that material generated by AI may be inaccurate, incomplete, or otherwise problematic, and relying exclusively on such tools can limit your independent thinking and creativity.

For certain assignment sections, you will be asked to compare outcomes between using AI tools and not using them. This is designed to help you develop skills in effectively utilizing AI to enhance your work.

You may not submit any work generated by an AI program as your own. If you include material generated by an AI program, it must be properly cited, as you would with any other reference, and you should consider the quality and appropriateness of the reference. All AI-generated content must be cited in APA format. For example:

OpenAI. (2024). ChatGPT (Version 4) [Generative AI model]. https://openai.com/chatgpt

Services for students with disabilities

The Disability Resource Center (DRC) supports students with disabilities by coordinating accommodation to ensure equal access to academic opportunities. Services include registering disabilities, recommending classroom accommodations, providing assistive technology, interpretation services, and helping resolve disability-related concerns between students and faculty. Students seeking accommodation must first register with the DRC through the Dean of Students' Office. Once registered, students will receive

official documentation, which must be presented to the instructor to request accommodation. For more information, visit the DRC in 0001 Reid Hall, call 352-392-8565, or go to www.dso.ufl.edu/drc/.

Student concerns and complaint resources

If you have concerns or need to file a complaint, please refer to the following resources:

- General Concerns and Complaint Process (Florida Department of Education): https://www.fldoe.org/schools/higher-ed/fl-college-system/about-us/concerns-complaints.stml
- For SNRE Students: https://snre.ifas.ufl.edu/resources/reporting-concerns/
- Residential Course: https://www.sfa.ufl.edu/written-student-complaints/
- Online Course: https://pfs.tnt.aa.ufl.edu/state-authorization-status/#student-complaint

Privacy and Accessibility Policies

For information about the privacy policies of the tools used in this course, see the links below:

- Adobe
  - Adobe Privacy Policy
  - Adobe Accessibility
- Instructure (Canvas)
  - Instructure Privacy Policy
  - Instructure Accessibility
- Microsoft
  - Microsoft Privacy Policy
  - Microsoft Accessibility
- Perusall
  - Perusal Accessibility
  - Perusal Privacy
- YouTube (Google)
  - YouTube (Google) Privacy Policy
  - YouTube (Google) Accessibility
- Zoom
  - Zoom Privacy Policy

- Zoom Accessibility

Additional Support Resources

Please don't hesitate to reach out to me or the SWES Graduate Student Coordinators, if you need help accessing resources that support your success in this course. Below are a few useful links based on common concerns:

Health & Wellness

- UF Medical Student Portal (U Matter, We Care): https://students.med.ufl.edu/u-matter/
- UF Counseling & Wellness Center: https://graduate.education.med.ufl.edu/resources-for-counseling-and-wellness/
- UF GatorCare Mental Health & Counseling Services: https://gatorcare.org/find-a-provider/mental-health-services/counseling/

UF Financial Aid/Scholarship opportunities

- UF Student Aid-A-Gator: https://www.sfa.ufl.edu/aidagator/
- https://grad.ufl.edu/gss/funding/srs/
- https://grad.ufl.edu/apply/funding/

State-Level Financial Aid and Scholarships:

- Florida Student Scholarship & Grant Programs: https://www.floridastudentfinancialaidsg.org/SAPHome/SAPHome?url=home
- Florida Department of Education Financial Aid: https://www.fldoe.org/finance/financial-aid-scholarships/

Academic Resources

- *E-learning technical support*: Contact the UF Computing Help Desk at 352-392-4357 https://it.ufl.edu/helpdesk/ or via e-mail at helpdesk@ufl.edu.
- *Career Connections Center*: Reitz Union Suite 1300, 352-392-1601. Career assistance and counseling services.

- *Library Support*: Various ways to receive assistance with respect to using the libraries or finding resources.
- *Teaching Center*: 1317 Turlington Hall, 352-392-2010. General study skills and tutoring.
- *Writing Studio*: 2215 Turlington Hall, 352-846-1138. Help brainstorming, formatting, and writing papers.
- *Student Concern*: Report Student Concerns or Conduct

Technical Support

If you experience technical difficulties or have limited access to computers, internet connectivity, hardware, or software, there are resources available to ensure you can fully participate in this course:

- UF Libraries Equipment Loans
  UF Libraries provide equipment loans, such as laptops or tablets, to students who may not have access to the necessary technology. Learn more about available equipment and how to request a loan here: https://cms.uflib.ufl.edu/usingthelibrary/equipment

- Technical Support Contacts
  For any technical issues with UF systems (e.g., Canvas, GatorLink, UF Email), contact the UF Computing Help Desk. UF Computing Help Desk & Ticket Number: All technical issues require a UF Helpdesk Ticket Number. The UF Helpdesk is available 24 hours a day, 7 days a week. https://helpdesk.ufl.edu/ | 352-392-4357

- Free Software Access

  Students can download required course software, such as R (https://cran.r-project.org/) and RStudio Desktop (now Posit Desktop, https://posit.co/download/rstudio-desktop/), at no cost.

- Additional Support
  Please reach out if you encounter ongoing barriers related to access or technology use so that we can help connect you to additional campus resources or discuss alternative arrangements as needed.

Student Privacy Disclaimer

For online courses with recorded materials, a statement informing students of privacy related issues such as: Our class sessions may be audio-visually recorded for students in the class to refer and for enrolled students who are unable to attend live. Students who participate with their camera engaged or utilize a profile image agree to have their video or image recorded. If you are unwilling to

consent to have your profile or video image recorded, be sure to keep your camera off and do not use a profile image. Likewise, students who are un-mute during class and participate orally agree to have their voices recorded. If you are not willing to consent to have your voice recorded during class, you will need to keep your mute button activated and communicate exclusively using the "chat" feature, which allows students to type questions and comments live. The chat will not be recorded or shared. As in all courses, unauthorized recording and unauthorized sharing of recorded materials is prohibited.

In-Class Recording

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 the faculty or guest lecturer during a class session.

Publication without the 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.

Software Use

All faculty, staff and students at 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 individual violators. Because such violations are also against university policies and rules, disciplinary action will be taken as appropriate.