

Introduction to Soils in the Environment Lab (1 credit)

Course Details

Instructor	Heather Enloe, Ph.D. <i>Soil, Water, and Ecosystem Sciences Department</i>
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Prerequisite/Co-requisite	SWS3022 Introduction to Soils in the Environment (lecture) or instructor approval
Course management	https://elearning.ufl.edu/
Course delivery	Synchronous Lectures and Labs: T & Th Bld 162, Rm 17
Teaching Assistants	Mohkam Singh

Objectives

- Visualize and measure essential soil physical, chemical, and morphological properties
- Practice the concepts presented in the lecture course through experiments, word problems, & calculations

Academic Honesty

As a student at the University of Florida, you have committed yourself to uphold the Honor Code. It is your individual responsibility to know and comply with all university policies and procedures regarding academic integrity and the Student Honor Code. Refer to the [Orange Book](#). 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. Specifically, you are required to:

- Know the definition of plagiarism (see the [UF library's guide on plagiarism](#)); and
- Use your own words in all your work (e.g., never cut and paste information from another source into an assignment or quiz or exam)

Course Assessments

Grade Point Distribution

Pre-Lab Knowledge Quizzes	10%
Lab Participation	30%
Lab Activity Assignment	20%
Midterm	20%
Final	20%

Grade Scale

90-100 A; 85-89 B+; 80-84 B; 75-79 C+; 70-74 C; 65-69 D+; 60-64 D; <60 E

Pre-Lab Knowledge Quizzes are completed before coming to lab and immediately after reading the course materials and watching the short lecture videos. These quizzes are to prepare you for lab that week, as well as the midterm and final.

- Open notes.
- Late work is not accepted. If you miss a quiz, you will not be able to take that quiz.
- You may drop one pre-lab knowledge quiz.
- You may study with your classmates; however, each student must submit his/her own work.

Lab Participation. You must attend lab and complete data collection to receive full points and to turn in your **Lab Activity Assignment**. You can drop one lab participation. No Make-up Labs are scheduled.

Lab Activity Assignments are completed after coming to lab. These are quizzes that record lab data and reinforce materials and calculations practiced in lab. These quizzes also prepare you for the midterm and final. You can drop one Lab Activity quiz.

This course has two exams--**a midterm and a final**--that are based on the materials and activities covered in lab and within the course quizzes. The final is comprehensive, with an emphasis on materials covered since the midterm. Both exams include two parts: (1) knowledge-based questions and calculations; and (2) a hands on practical component. Make-up exams are provided under extreme circumstances and only for the knowledge-based questions and calculations component. Neither exam is dropped from the final grade.

Topic Schedule

- ✓ Topics & dates may change. You will be notified through Canvas regarding any changes.

Week	Date	Activity
Introduction		
1	Jan-10 & Jan-12	Add/Drop. Lab Orientation & Expectations.
2	Jan-17 & Jan-19	Lab 1. Fundamentals of Soil
Soil Physical Properties		
3	Jan-24 & Jan-26	Lab 2. Soil Color
4	Jan-31 & Feb-2	Lab 3. Soil Texture
5	Feb-7 & Feb-9	Lab 4. Soil Bulk Density
6	Feb-14 & Feb-16	Lab 5. Soil Water Content
7	Feb-21 & Feb-23	Lab 6. Soil Water Movement & Review
8	Feb-28 & Mar-2	Midterm (covers Lab 1 to Lab 6)
Soil Chemical Properties		
9	Mar-7 & Mar-9	Topic to be determined
	Mar-14 & Mar-16	Spring Break
10	Mar-21 & Mar-23	Lab 7. Soil Mineral Colloids & CEC
11	Mar-28 & Mar-30	Lab 8. Soil Organic Matter & CEC
12	Apr-4 & Apr-6	Lab 9. Soil pH & Exchangeable Acidity
Soil Microbiological Properties		
13	Apr-11 & Apr-12	Lab 10. Soil Microbes
14	Apr-18 & Apr-20	Lab 11. Topic to be determined & Review
Wrap-up and Review		
15	Apr-25 & Apr-27	No Lab
16	May-2 & May 4	Final (online exam)

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 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/>.

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.

Publishing class lectures

Students are allowed to record video or audio of class lectures. Students may not publish recorded lectures without the written consent of the instructor. 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.

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 lecturer 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.

Additional Resources

Health and Wellbeing

- Services for Students with Disabilities: Students with disabilities who experience learning barriers and would like to request academic accommodations should connect with the disability Resource Center. [Click here to get started with the Disability Resource Center](#). It is important for students to share their accommodation letter with their instructor and discuss their access needs, as early as possible in the semester.
- U Matter, We Care: If you or someone you know is in distress, please contact umatter@ufl.edu, 352-392-1575, or visit U Matter, We Care website to refer or report a concern and a team member will reach out to the student in distress.
- Counseling and Wellness Center: Visit the Counseling and Wellness Center website or call 352-392-1575 for information on crisis services as well as non-crisis services.
- Student Health Care Center: Call 352-392-1161 for 24/7 information to help you find the care you need, or visit the Student Health Care Center website.
- University Police Department: Visit UF Police Department website or call 352-392-1111 (or 9-1-1 for emergencies).
- UF Health Shands Emergency Room / Trauma Center: For immediate medical care call 352-733-0111 or go to the emergency room at 1515 SW Archer Road, Gainesville, FL 32608; Visit the UF Health Emergency Room and Trauma Center website.
- GatorWell Health Promotion Services: For prevention services focused on optimal wellbeing and academic success, visit the GatorWell website or call 352-273-4450.

Academic Resources:

- E-learning technical support: Contact the UF Computing Help Desk at 352-392-4357 or via e-mail at helpdesk@ufl.edu. Visit the [helpdesk website](#).
- Career Connections Center: Reitz Union Suite 1300, 352-392-1601. Career assistance and counseling services.
- Library Support: Various ways to receive assistance with the libraries or finding resources.
- Teaching Center: Broward Hall, 352-392-2010 or to make an appointment 352- 392-6420. General study skills and tutoring.
- Writing Studio: 2215 Turlington Hall, 352-846-1138. Help brainstorming, formatting, and writing papers.
- Student Complaints On-Campus: Visit the Student Honor Code and Student Conduct Code webpage for more information. On-Line Students Complaints: View the Distance Learning Student Complaint Process.