



Environmental Science 2

EVS 3500 Class# 24317 (3 credit hours) – Spring 2025

T period 7 (1:55 – 2:45), R periods 7-8 (1:55 – 3:50)

Classroom: Little Hall, Room 125

Syllabus

Instructor: Dr. Danny Coenen (he/him), Instructional Associate Professor
& Undergraduate Coordinator

Email: dcoenen@ufl.edu

Office Location: McCarty D, Room 2047

Drop-in office hours: W 11:00 – 1:00, or by appointment

Teaching Assistant: Amanda Castaing (she/her), Interdisciplinary Ecology Masters Student

Email: a.castaing@ufl.edu

Office Location: McCarty D, Room 2053

Drop-in office hours: M 10:00 – 11:00 & R 4:00 – 5:00, or by appointment

We are here for you! Please don't hesitate to ask for assistance!

Course Description

Advanced environmental science topics with a focus on methods and applications to develop reasoned solutions to the complex social-ecological issues impacting society.

Prerequisites

EVS3000 & EVS3000L, or instructor permission.

Place in Curriculum

EVS3500 is the second part of the two-semester Environmental Science course sequence offered by the School of Natural Resources and Environment (SNRE). The goal of this course is to expose students to additional and emerging topics in environmental science and provide them with practice in career-relevant skills in science communication and collaboration.

- If you are an Environmental Science major, you should take EVS3500 during the semester after you completed EVS3000, if possible. It will count as an elective on your degree audit.
- If you are interested in taking this course as a free elective or for credit towards a non-SNRE major or minor after having completed EVS3000, please contact SNRE's undergraduate advisor Ali Goetz at a.goetz@ufl.edu as early as possible for enrollment information.

This is not yet a fully fine-tuned course, which has advantages and disadvantages for you as a student. Advantageous to you are low enrollment, greater flexibility in shaping the content of this course, and being able to influence - through your feedback - the future of this course, which we expect will become mandatory for Environmental Science majors admitted in or after Fall 2025. Disadvantageous to you may be that lectures, activities, rubrics, and assignment instructions are not yet polished and may not be available as early as you are used to in established classes, and that there will likely be some changes to our schedule as we go along.

Student Learning Outcomes

By the end of the semester, you will be able to:

- 1) recall additional key terminology and definitions important in environmental science practice and research.
- 2) interpret climate and ecological models.
- 3) examine social-ecological problems through the lenses of complex adaptive systems and environmental social science theories.
- 4) review and critique current and emerging technology-based solutions to environmental problems.
- 5) create a literature review paper that comprehensively assesses the state of knowledge on and proposed solutions to a social-ecological problem.
- 6) collaborate with peers to create and deliver a presentation appraising the feasibility of emergent environmental technologies and practices through the lenses of ecological, social, and economic sustainability.

Textbooks and readings

There two *recommended* textbooks for this class.

Pontius, J. & McIntosh, A. (2020). *Critical skills for environmental professionals: Putting knowledge into practice*. Springer Nature Switzerland. <https://doi.org/10.1007/978-3-030-28542-5>

Cunningham, W.P. & Cunningham, M.A. (2023). *Environmental science: A global concern* (16th ed.). McGraw Hill.



It is available as an eBook through UF All Access at a discounted price. See <https://businessservices.ufl.edu/services/uf-bookstore/uf-all-access/> for information and support. Please note: It may take several days after the start of the semester for you to receive access to the textbook.

Additional required readings will be made available on Canvas or UF library electronic reserves.

Grading Policies

Grading is based on how well you apply the learned material as outlined by assignment-specific rubrics provided on Canvas and the student learning objectives listed in the syllabus. Your grades rate the *quality* of the work submitted and is not an assessment of effort.

To avoid losing points, you must verify that all assignments are successfully uploaded to Canvas by the deadline. Missing, corrupt, or incompatible files may result in grade penalties up to a score of zero for the assignment. You are responsible for maintaining duplicate copies of all work submitted in this course until the end of the semester.

In case of a grading dispute, you must notify your me by email within one week of the date the grade is posted to Canvas. Please include an explanation of what aspect of your grade you disagree with. End-of-semester requests for grade bumps, assignment do-overs, additional extra credit, etc. will be denied. Please do not wait until the end of the semester to discuss problems with the course material or your performance in class. Your wellbeing and success are important to me, SNRE, the

College of Agricultural and Life Sciences, and the University of Florida, so please contact me to discuss any concerns as soon as they arise.

Information on current UF grading policies for assigning grade points can be found at <https://catalog.ufl.edu/UGRD/academic-regulations/grades-grading-policies/>.

Grading scale

Grade	Points	Percent	Grade	Points	Percent
A:	930.0-1000	93.0-100.0%	C:	730.0-769.9	73.0-76.9%
A-:	900.0-929.9	90.0-92.9%	C-:	700.0-729.9	70.0-72.9%
B+:	870.0-899.9	87.0-89.9%	D+:	670.0-699.9	67.0-69.9%
B:	830.0-869.9	83.0-86.9%	D:	630.0-669.9	63.0-66.9%
B-:	800.0-829.9	80.0-82.9%	D-:	600.0-629.9	60.0-62.9%
C+:	770.0-799.9	77.0-79.9%	E:	0.0-599.9	0.0-59.9%

Your final grade for this course will be based on a 1000-point scale and will be weighted as follows:

Grade Component	Points	Percentage
Attendance	100	10.0%
Engagement	130	13.0%
Literature review proposal	30	3.0%
Literature review annotated bibliography	90	9.0%
Literature review paper	180	18.0%
Emerging technologies and practices presentation	150	15.0%
Exam 1	160	16.0%
Exam 2	160	16.0%
Total	1000	100%

Attendance: Attending class regularly is foundational to learning. Your attendance grade is based on the number of class sessions you are present for. Please arrive on time and be prepared to learn. You are permitted to miss up to three class periods without impact to your attendance grade, although any missed engagement activities will incur a score of zero. Additional unexcused absences and inappropriate or disruptive classroom behavior will result in a reduction of your attendance grade.

Absences will be excused:

- in case of illness or injury, upon receipt of a doctor's note or equivalent, or by following the procedure outlined here: <https://care.dso.ufl.edu/instructor-notifications>.
- in case of family emergencies, deaths, or other extenuating circumstances, by following the procedure outlined here: <https://care.dso.ufl.edu/instructor-notifications>.
- in case of religious holidays, by informing me via email ahead of time.
- in case of military duty, jury duty, participation in academic conferences, or participation in official university or UAA events, by providing appropriate evidence ahead of time.
- in all other cases, or if you are unsure, please email me as soon as feasible. Absences are generally not excused for personal non-emergency travel and vehicle problems.

If absent, it is your responsibility to make yourself aware of all due dates via the course e-learning site.

Engagement: Learning is an active process facilitated by reflecting on, critically thinking about, and applying readings, lecture material, and out-of-class experiences. Your engagement grade is based on the quantity and quality of your contributions to formal and informal in-class discussions and activities, as well as homework assignments. You are strongly encouraged to participate during each class meeting by asking relevant questions, engaging in discussion, or sharing personal experiences on the topic. The precise number of engagement opportunities will vary depending on the needs and interests of this semester's cohort of students. Your engagement grade is aligned with course learning objectives 1 through 4.

Literature Review Paper: Peer-reviewed literature is the primary means through which scientific advances are publicized and critiqued. Evaluating what is known and what remains unknown about an issue of interest through synthesis of the professional literature is an essential preliminary step to any research project. This assignment allows you to practice this skill by producing a 1800-2200-word analytical synthesis of peer-reviewed literature in which you will comprehensively explore a social-ecological topic of your personal interest (subject to instructor approval) in detail. There are three graded submissions for this assignment: a proposal, an annotated bibliography, and the final paper. You will receive feedback on each submission before proceeding to the next. Grading will be by rubric posted on Canvas. A Turnitin.com score of less than 10% is expected. This part of your course grade is aligned with course learning objectives 1 through 5 with an emphasis on 5.

Emerging Technologies and Practices Presentation: Science is a collaborative process, thriving from the integration of knowledge among diverse groups of contributors. For this presentation, you will work in groups of four to five students to research emerging technologies and practices that are at least at the prototype or pilot stages of implementation, and critique them in terms of their social-ecological, political, and financial feasibility. You will present your findings by creating an engaging, professional presentation that will be reviewed by your instructor, TA, and your peers. Grading will be by rubric. This part of your course grade is aligned with course learning objectives 1 through 4 and 6, with an emphasis on 6.

Examinations: As a foundation course, acquisition and application of knowledge gained in this course will help you succeed in more advanced coursework and benefit your future careers. All information covered in readings and presented in class (incl. live and pre-recorded lectures, videos, discussions, and student contributions) is potential exam material. I emphasize questions that incorporate elements of critical thinking over rote memorization. Each exam consists of 40-50 multiple choice questions. This part of your course grade is aligned with course learning objectives 1 through 4.

Course Policies

Preamble

First and foremost, we want you to be successful in this class and in your degree program. **If at any point you experience extenuating circumstances that prevent you from performing to your full academic potential, please reach out to me for help!**

Attendance Policy

Requirements for class attendance and make-up exams, assignments, and other work in this course are consistent with university policies. [Click here to read the university attendance policies](#). Requirements specific to this class are outlined under Grading Policies->Attendance.

Make-up Policy

To maintain fairness, only work missed due to excused absences can be made up. For absences excused ahead of time, I will develop a make-up plan. In case of documented illnesses or emergencies, arrangements for completing make-up exams or assignments should be made upon your return to class. If experiencing truly extenuating circumstances resulting in longer absences, you should let me know as soon as possible. If you miss an exam for a non-excusable reason, a score of zero will be entered. Unfortunately, we are unable to accept assignment do-overs (resubmissions for a higher score) in this class. Missed extra credit opportunities cannot be made up.

Late Work

You are responsible for turning assignments in on time unless an extension has been requested by email prior to the deadline. In case of true documented emergencies, I may waive this requirement. Technical difficulties are not generally an excuse for missing an assessment or assignment; you should have contingency plans in case any such issues arise. I recommend storing your documents on a cloud service that can be accessed from any device ([OneDrive](#) is free for UF students), and having a plan for internet outages (such as identifying a source for public Wi-Fi near you or using your cell phone as a Wi-Fi hotspot). Try not to wait until the last minute to submit assignments!

Assignments submitted between one and four days late will incur a penalty of 10% of the possible points per day. Work submitted more than four days late will be assigned a score of zero.

I highly recommend starting on assignments early to preclude unexpected emergencies or late-semester stress that could compromise your grade. Deadline extensions may be available on certain assignments if requested at least 24 hours ahead of the deadline via email. If extended deadlines are not met, late penalties will be assessed based on the original, not the revised due date!

Artificial Intelligence (AI) Statement

AI applications including natural language chatbots like ChatGPT, GPT4o, Copilot, etc. are an amazing new technology that is revolutionizing the way we access and process information, just like computers, the internet, and mobile phones did in prior decades. AI can be a useful tool for tasks such as editing, spellchecking, organizing, and brainstorming. **Other uses, including copying & pasting chatbot output and representing it as your own work, are not appropriate in university courses; doing so constitutes academic dishonesty. All work submitted for credit in this class must be your own.** If you use any AI application for any part of an assignment (including brainstorming ideas or editing), you must state so as part of your submission. AI-generated images may not be used unless expressly approved by your instructor for a specific assignment.

Office Hours

Please take advantage of office hours to discuss any questions or concerns. Contact your teaching assistant for basic questions, help with assignments, and clarifications regarding grades and feedback. Contact me regarding absences, grading disputes, concerns about other students, and any other issues. If you cannot be present for the regularly scheduled help hours, we will attempt to accommodate you at an alternate time.

Course Communication

The preferred way to get ahold of me or your TA outside of drop-in office hours is via Canvas message or direct email from your official UF email account. You can expect a response within 24-48 hours on weekdays in most cases. Emails from outside providers, like Gmail, are not considered

secure and will be deleted to protect student privacy. Note that it is against FERPA best practices for me to discuss grades through email.

All students are expected to check the course web site on Canvas (<https://elearning.ufl.edu>) each weekday. In addition, we may send specific communications directly to your UF email, which you should check daily as well. You should enable Canvas notifications for this class, so that you are notified immediately about grading, assignment feedback, due date changes, announcements, etc.

External Communication

You may use GroupMe or similar tools to communicate with other students about the class and environmental science-related topics. **You may not, however, discuss quiz and exam questions/answers with others, including quizzes and exams from prior semesters, or collaborate on any assignments intended to be worked on individually. Doing so constitutes academic dishonesty.**

Canvas Display Name Change

Canvas uses the "Display Name" as set in myUFL. The Display Name is what you want people to see in the UF Directory, such as "Ally" instead of "Allison." To update your display name, go to one.ufl.edu, click on the dropdown at the top right, and select "Directory Profile." Click "Edit" on the right of the name panel, uncheck "Use my legal name" under "Display Name," update how you wish your name to be displayed, and click "Submit" at the bottom. This change may take up to 24 hours to appear in Canvas. This does not change your legal name for official UF records.

Paper Guidelines

All writing assignments will be submitted to Canvas and must be in **.docx** format, with the proper file extension. Other file formats will not be accepted. All assignments must include citations and references formatted according to APA 7th edition. You do not need cover pages, running headers, etc.

If you experience difficulties in the writing process are encouraged to contact your TA or me for advice or visit the UF Writing Studio (see *Campus Helping Resources* below).

I strongly recommend watching the following video on academic honesty, citing sources, and proper paraphrasing by the end of the drop-add period:

<https://www.youtube.com/watch?v=g81hPRKWsdM>

Technical Difficulties

For help with technical issues or difficulties with Canvas, please contact the UF Computing Help Desk at <https://helpdesk.ufl.edu>.

352-392-HELP (4357)

Walk-in: HUB 132

While technical difficulties are not generally an acceptable excuse, any requests for make-ups (assignments, exams, etc.) due to technical issues should be accompanied by the ticket number received from the UF Computing Help Desk when the problem was reported to them. The ticket number will document the time and date of the problem. You should email me within 24 hours of the technical difficulty if you wish to request a make-up.

CALS and University of Florida Policies

Academic Honesty and Plagiarism

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). 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. Any suspected violations will be reported to the Dean of Students Office for consideration of disciplinary action in accordance with UF policy. For more information regarding the Student Honor Code, please see: <https://policy.ufl.edu/regulation/4-040/>.

Many students are unaware of the seriousness of violating academic ethics. **PLAGIARISM, WHETHER INTENTIONAL OR UNINTENTIONAL, IS A SERIOUS AND POTENTIALLY CAREER-ENDING FORM OF ACADEMIC MISCONDUCT. Copying and pasting from external sources without attribution is never okay in academia.** Direct quotes are not commonly used in science writing; paraphrases accompanied by a proper in-text citation should be used instead. Inappropriate use of direct quotes in this class will result in a loss of credit.

Grades and Grade Points

For information on current UF policies for assigning grade points, see <https://catalog.ufl.edu/UGRD/academic-regulations/grades-grading-policies/>

Course Evaluation Process

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.ua.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.bluer.com/ufl/>. Summaries of course evaluation results are available to students at: <https://gatorevals.ua.ufl.edu/public-results/>.

Zoom Conference Privacy

Should it become necessary or convenient to hold classes virtually using zoom, those class sessions may be audio-visually recorded for students in the class to refer back and for enrolled students who are unable to attend live. Students who participate with their camera engaged or utilize a profile image are agreeing 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 un-mute during class and participate orally are agreeing 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. As in all courses, unauthorized sharing of recorded materials is prohibited.

Software Use

All UF faculty, staff and students 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.

Services 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.

You must submit this documentation prior to submitting assignments or taking quizzes or exams. Accommodations are not retroactive; therefore, students should contact the office as soon as possible in the term for which they are seeking accommodations. The DRC may be contacted by visiting 001 Reid Hall, calling 352-392-8565, or visiting their web site at www.dso.ufl.edu/drc/.

In-class Recording Policy

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 education 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 deliver by an 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 presentation 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 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.

Student Complaints

Residential Courses, Academic complaints or Enrollment Management (registrar, financial aid, admissions) complaints: <https://www.ombuds.ufl.edu/complaint-portal/>

Online Courses: <https://pfs.tnt.aa.ufl.edu/state-authorization-status/#student-complaint>

Campus Helping Resources

Your wellbeing is important to me and the University of Florida community. If you experience a crisis or personal problem that interferes with your wellbeing, please 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. You are, of course, always welcome and encouraged to talk to me about any issues that interfere with your academic performance and wellbeing.

Whole Gator App

The Whole Gator and website and app connects UF students with resources dedicated to supporting overall health and well-being. In addition to many of the resources below it also has strategies to practice self-care. <https://one.ufl.edu/whole-gator/topics>.

Health and Wellness

- *U Matter We Care.* If you or someone you know is in distress, please contact umatter@ufl.edu, 352-392-1575, or visit the [U Matter, We Care website](#) to refer or report a concern and a team member will reach out to the student in distress.
- *Counseling & 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, including Wellness Coaching for Academic Success, [visit the GatorWell website](#) or call 352-273-4450.
- *Student Success Initiative,* <https://studentsuccess.ufl.edu/>
- [Field and Fork Pantry](#). Food and toiletries for students experiencing food insecurity.

Academic Resources

- *E-learning technical support.* Contact the [UF Computing Help Desk](#) at 352-392-4357 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 using the libraries or finding resources. Call 866-281-6309 or email ask@ufl.libanswers.com for more information.
- [Teaching Center](#). 1317 Turlington Hall, 352-392-2010 or to make an appointment 352- 392-6420. General study skills and tutoring.
- [Writing Studio](#). Daytime (9:30am-3:30pm): 2215 Turlington Hall, 352-846-1138 | Evening (5:00pm-7:00pm): 1545 W University Avenue (Library West, Rm. 339). Help brainstorming, formatting, and writing papers.
- [Dean of Students Office](#). 202 Peabody Hall, 392-1261. Among other services, the DSO assists students who are experiencing situations that compromises their ability to attend classes. This includes family emergencies and medical issues (including mental health crises).

Course Outline (subject to change – please check the Canvas calendar for the latest information)

Critical Dates

Literature Review Paper proposal	Friday, January 31
Exam 1	Tuesday, March 4
Annotated bibliography	Friday, March 7
Literature Review Paper	Friday, April 11
Emerging technologies & practices presentation	Thursday, April 17
Exam 2	Tuesday, April 22
Presentation peer reviews	Wednesday, April 23

Course Alterations

Due to unforeseen circumstances or to enhance class learning opportunities, it may be necessary to alter the information given in this syllabus during the semester. Such changes are not unusual and should be expected. All changes to the syllabus will be announced in class and posted to Canvas. It is your responsibility to keep up with any syllabus changes.