Graduate Environmental Engineering Seminar: Systems Ecology Seminar  
ENV 6935 Sections (27205, 27206, 27207)  
Class Periods: TR | Period 4 (10:40-11:30AM)  
Location: BLK 0213 (and asynchronous online)  
Academic Term: Fall 2022

Instructor:  
Dr. Katherine Todd-Brown  
ktoddbrown@ufl.edu  
(352) 294-6604  
Office Hours: By appointment

Teaching Assistant/Peer Mentor/Supervised Teaching Student:  
None

Course Description  
Graduate Environmental Engineering Seminar. 2 Credit

Course Pre-Requisites / Co-Requisites  
None

Course Objectives  
Students will demonstrate an understanding of systems thinking by communicating interconnections of  
components and their resulting emergent behavior. Students will be able to diagram systems based on a presented  
narrative. Students will engage in science-based forum for the exchange of research findings, ideas, and debate.  
Students will lead and facilitate a scientific discussion.

Materials and Supply Fees  
None

Required Textbooks and Software  
- Zoom  
- Microsoft Powerpoint or comparable presentation software

Recommended Materials  
- None

Course Schedule  
Week 1: Introduction  
Week 2-8: Discussions from “Thinking in Systems” and weekly diagram exercise  
Week 9-16: Presentations

Attendance Policy, Class Expectations, and Make-Up Policy  
The Systems Ecology Seminar is a weekly seminar that encourages critical thinking about ecological, political,  
social, and economic systems and their connections. The seminar was initiated at the University of Florida in 1973  
by one of the founders of Systems Ecology, Howard T. Odum, and since that time, has had the explicit goal of  
developing “systems thinkers” who are able to couple quantitative and qualitative understanding of interconnected  
systems at multiple scales.  
The first half of the course will center on Donella Meadows “Thinking in Systems” book with student recaps  
due at the end of each chapter. During class examples from the instructors and student research projects will build  
off of systems introduced in the text. The last half of the course will center on student presentations where a student
or group of students, present and lead a discussion about a specific system they are interested in. Student led seminars can cover a wide range of interdisciplinary topics provided they are approached from systems perspective. Participation by students from a variety of academic disciplines is encouraged as it provides context from outside of engineering and science, motivating thoughtful discussion and knowledge sharing across disciplinary boundaries.

To accommodate synchronous and asynchronous learners, all section sections will use the same Canvas site. We will use the discussion board extensively to talk about the reading, student diagrams, and presentations.

Students are expected to give one 15-30 minute presentation including a systems diagram on a system of their choice. Though synchronous presentations and attendance are encouraged, they are not required. If students do not attend class discussions, there is a higher level of engagement expected on the discussion board. Please notify the instructor of your presentation is going to be recorded when you sign up to give your presentation. Missed presentations will be dealt with on a case by case basis.

If you attend synchronously please bring your laptop so that you can follow along in the zoom chat.

Excused absences must be consistent with university policies in the Graduate Catalog (https://catalog.ufl.edu/graduate/regulations) and require appropriate documentation. Additional information can be found here: https://gradcatalog.ufl.edu/graduate/regulations/

### Evaluation of Grades

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Total Points</th>
<th>Percentage of Final Grade</th>
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<tbody>
<tr>
<td>Reading recaps (7)</td>
<td>3 each = 21</td>
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<tr>
<td>Reading discussion (7)</td>
<td>2 each = 14</td>
<td>14%</td>
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<tr>
<td>Diagram discussions (7)</td>
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<tr>
<td>Presentation</td>
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<td>30%</td>
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<td></td>
<td>100</td>
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### Grading Policy

<table>
<thead>
<tr>
<th>Percent</th>
<th>Grade</th>
<th>Grade Points</th>
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<tbody>
<tr>
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<tr>
<td>90 - 92</td>
<td>A-</td>
<td>3.67</td>
</tr>
<tr>
<td>87 - 89</td>
<td>B+</td>
<td>3.33</td>
</tr>
<tr>
<td>83 - 86</td>
<td>B</td>
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<tr>
<td>80 - 82</td>
<td>B-</td>
<td>2.67</td>
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<tr>
<td>77 - 79</td>
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<td>73 - 76</td>
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<tr>
<td>70 - 72</td>
<td>C-</td>
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<tr>
<td>67 - 69</td>
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<tr>
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More information on UF grading policy may be found at:
[UF Graduate Catalog](https://catalog.ufl.edu/graduate/regulations)
[Grades and Grading Policies](https://gradcatalog.ufl.edu/graduate/regulations/)

### Students Requiring Accommodations

Students with disabilities who experience learning barriers and would like to request academic accommodations should connect with the disability Resource Center by visiting [https://disability.ufl.edu/students/get-started/](https://disability.ufl.edu/students/get-started/). 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.
**Course Evaluation**

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/](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.bluerca.com/ufl/](https://ufl.bluerca.com/ufl/). Summaries of course evaluation results are available to students at [https://gatorevals.aa.ufl.edu/public-results/](https://gatorevals.aa.ufl.edu/public-results/).

**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 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.

**University Honesty Policy**

UF students are bound by The Honor Pledge which states, “We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: “On my honor, I have neither given nor received unauthorized aid in doing this assignment.” The Honor Code ([https://sccr.dso.ufl.edu/process/student-conduct-code/](https://sccr.dso.ufl.edu/process/student-conduct-code/)) specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor or TAs in this class.

**Commitment to a Safe and Inclusive Learning Environment**

The Herbert Wertheim College of Engineering values broad diversity within our community and is committed to individual and group empowerment, inclusion, and the elimination of discrimination. It is expected that every person in this class will treat one another with dignity and respect regardless of gender, sexuality, disability, age, socioeconomic status, ethnicity, race, and culture.

If you feel like your performance in class is being impacted by discrimination or harassment of any kind, please contact your instructor or one of the following:

- Your academic advisor or Graduate Program Coordinator
- Jennifer Nappo, Director of Human Resources, 352-392-0904, jpenicc@ufl.edu
- Curtis Taylor, Associate Dean of Student Affairs, 352-392-2177, taylor@eng.ufl.edu

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K Todd-Brown, Fall 2022
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. We, the members of the University of Florida community, pledge to uphold ourselves and our peers to the highest standards of honesty and integrity.

Student Privacy
There are federal laws protecting your privacy with regards to grades earned in courses and on individual assignments. For more information, please see: https://registrar.ufl.edu/ferpa.html

Campus Resources:
Health and Wellness

U Matter, We Care:
Your well-being is important to the University of Florida. The U Matter, We Care initiative is committed to creating a culture of care on our campus by encouraging members of our community to look out for one another and to reach out for help if a member of our community is in need. If you or a friend is in distress, please contact umatter@ufl.edu so that the U Matter, We Care Team can reach out to the student in distress. A nighttime and weekend crisis counselor is available by phone at 352-392-1575. The U Matter, We Care Team can help connect students to the many other helping resources available including, but not limited to, Victim Advocates, Housing staff, and the Counseling and Wellness Center. Please remember that asking for help is a sign of strength. In case of emergency, call 9-1-1.

Counseling and Wellness Center: https://counseling.ufl.edu, and 392-1575; and the University Police Department: 392-1111 or 9-1-1 for emergencies.

Sexual Discrimination, Harassment, Assault, or Violence
If you or a friend has been subjected to sexual discrimination, sexual harassment, sexual assault, or violence contact the Office of Title IX Compliance, located at Yon Hall Room 427, 1908 Stadium Road, (352) 273-1094, title-ix@ufl.edu

Sexual Assault Recovery Services (SARS)
Student Health Care Center, 392-1161.

University Police Department at 392-1111 (or 9-1-1 for emergencies), or http://www.police.ufl.edu/.

Academic Resources

E-learning technical support, 352-392-4357 (select option 2) or e-mail to Learning-support@ufl.edu. https://lssat.ufl.edu/help.shtml.


Library Support, http://cms.uflib.ufl.edu/ask. Various ways to receive assistance with respect to using the libraries or finding resources.

Teaching Center, Broward Hall, 392-2010 or 392-6420. General study skills and tutoring. https://teachingcenter.ufl.edu/.


On-Line Students Complaints: [https://distance.ufl.edu/state-authorization-status/#student-complaint](https://distance.ufl.edu/state-authorization-status/#student-complaint).