

**SYLLABUS: GLY 2038 Sustainability in a Changing Earth
GEO 3930
University of Florida, Department of Geological Sciences**

Semester: Spring 2021

Credits: 3

Meeting Location: Weil 270, Online Synchronous

Meeting Time: M,W,F (3): 9:35 – 10:25

INSTRUCTOR

Instructor: Dr. William F Kenney

Office: 207 Williamson Hall

Office hours: By appointment

Phone: 352-392-8664

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COURSE DESCRIPTION

In this course, we will focus on efforts and challenges to sustaining ecosystem services for a growing population in the context of dynamic earth surface processes.

Course Objectives: It is the goal of this course that, by the end, students will:

- Have a basic understanding of prevalent sustainability issues from an Earth Science perspective.
- Develop skills to use the scientific literature to research sustainability issues.

COURSE MATERIALS

Required Textbook

Title: Sustainability: A Comprehensive Foundation

ISBN: 9781300132370

Cover: Paperback Book, but available for free download online

Author: Tom Theis, Jonathan Tomkin

Publisher: Connexions

Edition: First

Copyright: U of I Open Source Textbook Initiative (Creative Commons Attribution 2.5) 2012

This text is required

Free download

<https://open.umn.edu/opentextbooks/textbooks/sustainability-a-comprehensive-foundation>

In addition, there will be selected readings and viewings delivered by email.

ASSESSMENTS AND GRADING

Your grade for this class will be the result of your performance on the

4 TESTS (60%)

CLASS ASSIGNMENTS (20%)

FINAL EXAM 4/26/2021 10am – 12am (20%)

Final Grade Scale

A = $\geq 93\%$, A- = 90-92.99, B+ = 87-89.99, B = 83-86.99, B- = 80-82.99, C+ = 77-79.99, C = 73-76.99, C- = 70-72.99, D+ = 67-69.99, D = 63-66.99, D- = 60-62.99, E < 60

For further information on UF's Grading Policy, consult:

<https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>

COURSE AND UNIVERSITY POLICIES

Attendance and Absence

Students are expected to complete all requirements (assignments, problem sets, discussions, and quizzes) on the specified dates and will not be granted an alternate due date unless they have an acceptable reason (e.g. medical emergency, observance of religious holidays, military obligation) or pre-arranged consent of the instructor. These requests must be timely and accompanied by all necessary written documentation.

'In-class activities' must be turned in by the end of each class period. They can be turned in only up to 1 week after the class they are due but will receive half credit. This does not apply to the online course, for which there will be no late work accepted.

Requirements for class attendance and make-up exams, assignments, and other work in this course are consistent with university policies that can be found in the online catalog at:

<https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>

Classroom policy

Students should bring to each class meeting a laptop or similar device for use in taking notes, completing in-class activities, and accessing the internet. However, use of mobile devices and computers during class for purposes other than viewing readings or conducting sanctioned research is not allowed. Cell phones must be put on "vibrate" during class. Students who receive or make calls or text messages or engage in other disruptive behavior during class will be asked to leave. Students should also bring pen/pencil and paper to each class.

Academic Honesty Policy

Students must conform to UF's academic honesty policy regarding plagiarism and other forms of cheating. This means that 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 university specifically prohibits cheating, plagiarism, misrepresentation, bribery, conspiracy, and fabrication. For more information about the definition of these terms and other

aspects of the Honesty Guidelines, see <http://www.dso.ufl.edu/sccr/process/student---conduct---honor---code/>. All students found to have cheated, plagiarized, or otherwise violated the Honor Code in any assignment for this course will be prosecuted to the full extent of the university honor policy, including judicial action and the sanctions listed in paragraph XI of the Student Conduct Code. For serious violations, you will fail this course.

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.

Accommodations for Students with Disabilities

Please do not hesitate to ask for accommodation for a documented disability. Students requesting classroom accommodation must first register with the Dean of Students Office (<http://www.dso.ufl.edu/drp/>). The Dean of Students Office will provide documentation to the student, who must then provide this documentation to the Instructor when requesting accommodation. Please ask the instructor if you would like any assistance in this process. Please provide this information to your instructor within the first two weeks of the semester.

Instructor 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/>. 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/>.

Drop/Add/Withdrawal

A student can drop/add during the drop add period with no penalty. After drop/add, a student who drops will receive a W until the date listed in the academic calendar. After that date, the student may be assigned an "E" (fail). Note: it is the responsibility of the STUDENT to withdraw from a course, not the instructor. Failure to participate/complete the class is NOT a drop.

Additional Resources

Students facing difficulties completing the course or who are in need of counseling or urgent help may contact the Counseling and Wellness Center:

<http://www.counseling.ufl.edu/cwc/Default.aspx>, 392-1575; or the University Police Department: 392-1111 or 9-1-1 for emergencies. Other Resources available on-campus for students include:

- a. Student Mental Health, Student Health Care Center, 392-1171, personal counseling;
- b. Interpersonal Violence Counseling, Student Health Care Center, 392-1161
- c. Career Resource Center, Reitz Union, 392-1601, career development assistance and counseling.

COURSE SCHEDULE

January 11	Course Introduction
January 13	Tragedy of the Commons/Population Growth
January 15	Class Assignment 1: Perspectives on Sustainability
January 20	Global Fisheries
January 22	Class Assignment 2: Selecting Sustainable Fish
January 25	Global Fisheries
January 27	Global Fisheries
January 29	Class Assignment 3: Rebuilding Global Fisheries?
February 1	Review Test 1
February 3	Test 1
February 5	Test 1 Grading/Explanation
February 8	Surface Waters, Water Quality and Eutrophication
February 10	Dr. Mark Brenner: Lakes Rivers, Deltas & Dams
February 12	Class Assignment 4: Water Quality
February 15	Dr. Jim Jawitz: Drinking Water & Water Scarcity
February 17	Lake Okeechobee and the Everglades
February 19	Class Assignment 5: Invasive Species
February 22	Dr. Matt Waters: Transboundary Waters
February 24	Dr. Christine Angelini: Coastal Restoration
February 26	Class Assignment 6
March 1	Review Test 2
March 3	Test 2

March 5	Test 2 Grading/ Explanation
March 8	Red Tide
March 10	Plastics in the Oceans
March 12	Class Assignment 7: Solutions to Plastics
March 15	BP Oil Spill
March 17	Rivers, Deltas & Dams
March 19	Class Assignment 8
March 22	Dr. Tom Bianchi: How Warming Seas Influence Animal Ranges and the Carbon Cycle
March 24	Dr. Donny Smoak: Mangroves
March 26	Class Assignment 9
March 29	Review Test 3
March 31	Test 3
April 2	Test 3 Grading/Explanation
April 5	Dr. Andrew Zimmerman: Climate Change
April 7	Dr. Andrew Zimmerman: Climate Change
April 9	Dr. Andrew Zimmerman: Climate Change
April 12	Sea Level Rise
April 14	Oil, Petroleum Products & Biofuels
April 16	Holland's Barriers to the Sea (Movie)
April 19	Review Test 4
April 21	Test 4