

Course Syllabus

Time: Monday, Wednesday, Friday, 6th period (12:50 p.m. - 1.40 p.m.)

Location: 202 Williamson Hall / [online](https://ufl.zoom.us/j/93144066546?pwd=MIV1ejRxWEIBYzI4d0dlTVl1M0ZPUT09) [_ \(https://ufl.zoom.us/j/93144066546?pwd=MIV1ejRxWEIBYzI4d0dlTVl1M0ZPUT09\)](https://ufl.zoom.us/j/93144066546?pwd=MIV1ejRxWEIBYzI4d0dlTVl1M0ZPUT09)

Instructors: Dr. Juliane Dannberg and Dr. Kiran Chotalia

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Office: 219 Williamson Hall

Phone: 103650

Office Hours: Friday, 1.45 p.m. - 3.45 p.m., or by appointment either in 219 Williamson Hall or [online](https://ufl.zoom.us/j/96572127344?pwd=TG16bXN0SElyL2FHTlZlZjZMUjE0Zz09) [_ \(https://ufl.zoom.us/j/96572127344?pwd=TG16bXN0SElyL2FHTlZlZjZMUjE0Zz09\)](https://ufl.zoom.us/j/96572127344?pwd=TG16bXN0SElyL2FHTlZlZjZMUjE0Zz09)

Important: You will have the option to participate in the class remotely, using [this zoom link](https://ufl.zoom.us/j/93144066546?pwd=MIV1ejRxWEIBYzI4d0dlTVl1M0ZPUT09) [_ \(https://ufl.zoom.us/j/93144066546?pwd=MIV1ejRxWEIBYzI4d0dlTVl1M0ZPUT09\)](https://ufl.zoom.us/j/93144066546?pwd=MIV1ejRxWEIBYzI4d0dlTVl1M0ZPUT09). We want everyone to feel save while participating in this class, and we will simultaneously deliver lectures both face-to-face in the original classroom and synchronously online.

Welcome to GLY4930/GLY6932, Introduction to Simulations and Computational Techniques for Earth Sciences!

This course gives an introduction to programming in Python, using examples from the Earth Sciences. No previous programming knowledge is required. To learn more about the computational techniques given in the learning objectives below, we will use applications relevant to Earth Sciences such as analyzing earthquake magnitudes, plotting geospatial data or how the orientation of dikes is distributed, computing the discharge of a river, analyzing the grain size distribution of rocks, or modeling the carbon cycle.

Course objectives:

- Learning the basics of Python syntax. This includes the very first program ("Hello World!"), indentation, assigning variables, basic math and logic operations, decision making and loops, and input and output of data.
- Building Python programming skills including the development of stand-alone programs, the usage of existing Python packages/modules, function definitions, and program structure best practices.
- Learning fundamental data analysis techniques including basic statistical analysis, plotting and fitting data.
- Learning the basics of numerical simulations including time and space discretization techniques and how to implement them in Python.

Prerequisites: Some basic calculus will be useful because the course will cover statistics and numerical methods for solving equations. However, the focus of the class is on programming, not on math (and no prior programming knowledge is required).

Materials: Both the in-class exercises and the assignments will require a computer to complete them, so it is important that you bring your computer to class. Lectures will be interactive and you will need your computer to follow along. We will use [Colab](https://colab.research.google.com/) [_ \(https://colab.research.google.com/\)](https://colab.research.google.com/) to run python in the browser, so you will not need to install any software.

Textbooks: No textbooks are required.

Assignments and grading

Your grade in this class will be determined by how you do in the 11 programming assignments. Each of the assignments is worth 10% of the grade and the one with the lowest points will be dropped.

What each of these assignments involves and when it is due will be discussed for each assignment individually. I will upload detailed descriptions of each assignment throughout the semester. The assignments will all be programming exercises and you will find that you will be better off if you start working on them early (because debugging code always takes longer than one initially expects). There will be no midterm or final exams.

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

We expect you to submit the assignments on time. They will be due on Tuesday at midnight every week. The assignments will build on each other and we will try to grade them as quickly as possible so that you can learn from mistakes and incorporate feedback on one assignment while working on the next one. We will still accept late submissions of assignments up to one week after the original due date, and you will receive 85% of the credit. I know there are other things in life that may come up and may prevent you from submitting an assignment on time. That's okay, and that is why the assignment with the lowest score will be dropped.

Grading scale

Name:	Range:	
A	100 %	to 94.0%
A-	< 94.0 %	to 90.0%
B+	< 90.0 %	to 87.0%
B	< 87.0 %	to 84.0%
B-	< 84.0 %	to 80.0%
C+	< 80.0 %	to 77.0%
C	< 77.0 %	to 74.0%

Name:	Range:	
C-	< 74.0 %	to 70.0%
D+	< 70.0 %	to 67.0%
D	< 67.0 %	to 64.0%
D-	< 64.0 %	to 61.0%
F	< 61.0 %	to 0.0%

Schedule

Week 1	Introduction: Python and google Colab
Week 2	Loading and plotting data: The Earth's Topography
Week 3	Plotting data on a map: Earthquake locations
Week 4	Basic programming syntax: Conditionals, Loops and Functions
Week 5	Analyzing data using Pandas Dataframes
Week 6	Advanced plotting and fitting data
Week 7	Using functions in real-world applications
Week 8	First-order ordinary differential equations
Week 9	Initial Value Problems and coupled ordinary differential equations
Week 10	Second Order Differential Equations: Hillslope Diffusion
Week 11	Space- and Time-dependent problems
Week 12	Fourier transform
Week 13	Image Processing
Week 14	Debugging (Thanksgiving week)
Week 15	AI/Machine learning
Week 16	Bring your own example programming problem!

COVID safety expectations

In response to COVID-19, the following practices are in place to maintain your learning environment, to enhance the safety of our in-classroom interactions, and to further the health and safety of ourselves, our neighbors, and our loved ones.

- If you are not vaccinated, get vaccinated. Vaccines are readily available at no cost and have been demonstrated to be safe and effective against the COVID-19 virus. Visit this link for details on where to get your shot, including options that do not require an appointment: <https://coronavirus.uflhealth.org/vaccinations/vaccine-availability/> .(<https://coronavirus.uflhealth.org/vaccinations/vaccine-availability/>). Students who receive the first dose of the vaccine somewhere off-campus and/or outside of Gainesville can still receive their second dose on campus.
- You are expected to wear approved face coverings at all times during class and within buildings even if you are vaccinated. Please continue to follow healthy habits, including best practices like frequent hand washing. Following these practices is our responsibility as Gators.
 - Sanitizing supplies are available in the classroom if you wish to wipe down your desks prior to sitting down and at the end of the class.
 - Hand sanitizing stations will be located in every classroom.
- If you are sick, stay home and self-quarantine. Please visit the UF Health Screen, Test & Protect website about next steps, retake the questionnaire and schedule your test for no sooner than 24 hours after your symptoms began. Please call your primary care provider if you are ill and need immediate care or the UF Student Health Care Center at 352-392-1161 (or email covid@shcc.ufl.edu) to be evaluated for testing and to receive further instructions about returning to campus. UF Health Screen, Test & Protect offers guidance when you are sick, have been exposed to someone who has tested positive or have tested positive yourself. Visit the [UF Health Screen, Test & Protect website](https://coronavirus.uflhealth.org/screen-test-protect-2/frequently-asked-questions/covid-19-exposure-and-symptoms-who-do-i-call-if/) .(<https://coronavirus.uflhealth.org/screen-test-protect-2/frequently-asked-questions/covid-19-exposure-and-symptoms-who-do-i-call-if/>) for more information.
 - Course materials will be provided to you with an excused absence, and you will be given a reasonable amount of time to make up work.
 - If you are withheld from campus by the Department of Health through Screen, Test & Protect you are not permitted to use any on campus facilities. Students attempting to attend campus activities when withheld from campus will be referred to the Dean of Students Office.
- Continue to regularly visit coronavirus.UFHealth.org and coronavirus.ufl.edu for up-to-date information about COVID-19 and vaccination.

Attendance and make-up exams

Requirements for class attendance and make-up exams, assignments, and other work in this course are consistent with university policies that can be found at: catalog.ufl.edu/UGRD/academic-regulations/attendance-policies/ .(<http://catalog.ufl.edu/UGRD/academic-regulations/attendance-policies/>)

Policy on Zoom Presence

Our 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 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.

Accommodations 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 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.

Online 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 gatorevals.aa.ufl.edu/students/ (<http://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 ufl.bluera.com/ufl/ (<http://ufl.bluera.com/ufl/>). Summaries of course evaluation results are available to students at gatorevals.aa.ufl.edu/public-results/ (<http://gatorevals.aa.ufl.edu/public-results/>).

The university's 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 [Conduct 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. If you have any questions or concerns, please talk to us about them.

Campus Resources: Health and Wellness

- *U Matter, We Care*: If you or someone you know is in distress, please contact umatter@ufl.edu (<mailto:umatter@ufl.edu>), 352-392-1575, or visit [U Matter, We Care](https://umatter.ufl.edu/) (<https://umatter.ufl.edu/>) 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](https://counseling.ufl.edu/) (<https://counseling.ufl.edu/>) 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](https://shcc.ufl.edu/) (<https://shcc.ufl.edu/>).
- *University Police Department*: Visit [UF Police Department website](https://police.ufl.edu/) (<https://police.ufl.edu/>) 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](https://ufhealth.org/emergency-room-trauma-center/) (<https://ufhealth.org/emergency-room-trauma-center/>).
- *GatorWell Health Promotion Services*: For prevention services focused on optimal wellbeing, including Wellness Coaching for Academic Success, visit the [GatorWell website](https://gatorwell.ufsa.ufl.edu/) (<https://gatorwell.ufsa.ufl.edu/>) or call 352-273-4450.

Academic Resources

- *E-learning technical support*: Contact the [UF Computing Help Desk](http://helpdesk.ufl.edu/) (<http://helpdesk.ufl.edu/>) at 352-392-4357 or via e-mail at helpdesk@ufl.edu (<mailto:helpdesk@ufl.edu>).
- *Career Connections Center* (<https://career.ufl.edu/>): Reitz Union Suite 1300, 352-392-1601. Career assistance and counseling services.
- *Library Support* (<https://cms.uflib.ufl.edu/ask/>): Various ways to receive assistance with respect to using the libraries or finding resources.
- *Teaching Center* (<https://teachingcenter.ufl.edu/>): Broward Hall, 352-392-2010 or to make an appointment 352-392-6420. General study skills and tutoring.
- *Writing Studio* (<https://writing.ufl.edu/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](https://sccr.dso.ufl.edu/policies/student-honor-%20code-student-conduct-code/) (<https://sccr.dso.ufl.edu/policies/student-honor-%20code-student-conduct-code/>) for more information.

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.

Course Summary:

Date	Details	Due
Mon Aug 23, 2021	 GLY 4930/GLY 6932: Introduction to Simulations and Computational Techniques for Earth Sciences (https://ufl.instructure.com/calendar?event_id=2175218&include_contexts=course_437138)	12:50pm to 1:50pm
Wed Aug 25, 2021	 GLY 4930/GLY 6932: Introduction to Simulations and Computational Techniques for Earth Sciences (https://ufl.instructure.com/calendar?event_id=2175219&include_contexts=course_437138)	12:50pm to 1:50pm
Fri Aug 27, 2021	 GLY 4930/GLY 6932: Introduction to Simulations and Computational Techniques for Earth Sciences (https://ufl.instructure.com/calendar?event_id=2175220&include_contexts=course_437138)	12:50pm to 1:50pm
	 GLY 4930/GLY 6932: Office Hours (https://ufl.instructure.com/calendar?event_id=2175203&include_contexts=course_437138)	1:45pm to 3:45pm
Mon Aug 30, 2021	 GLY 4930/GLY 6932: Introduction to Simulations and Computational Techniques for Earth Sciences (https://ufl.instructure.com/calendar?event_id=2175221&include_contexts=course_437138)	12:50pm to 1:50pm
Tue Aug 31, 2021	 Practice assignment (Bonus points): Basic python syntax (https://ufl.instructure.com/courses/437138/assignments/4813325)	due by 11:59pm
Wed Sep 1, 2021	 GLY 4930/GLY 6932: Introduction to Simulations and Computational Techniques for Earth Sciences (https://ufl.instructure.com/calendar?event_id=2175222&include_contexts=course_437138)	12:50pm to 1:50pm
Fri Sep 3, 2021	 GLY 4930/GLY 6932: Introduction to Simulations and Computational Techniques for Earth Sciences (https://ufl.instructure.com/calendar?event_id=2175223&include_contexts=course_437138)	12:50pm to 1:50pm
	 GLY 4930/GLY 6932: Office Hours (https://ufl.instructure.com/calendar?event_id=2175204&include_contexts=course_437138)	1:45pm to 3:45pm
Tue Sep 7, 2021	 Programming assignment 1: Seafloor age (https://ufl.instructure.com/courses/437138/assignments/4816273)	due by 11:59pm
Wed Sep 8, 2021	 GLY 4930/GLY 6932: Introduction to Simulations and Computational Techniques for Earth Sciences (https://ufl.instructure.com/calendar?event_id=2175224&include_contexts=course_437138)	12:50pm to 1:50pm
Fri Sep 10, 2021	 GLY 4930/GLY 6932: Introduction to Simulations and Computational Techniques for Earth Sciences (https://ufl.instructure.com/calendar?event_id=2175225&include_contexts=course_437138)	12:50pm to 1:50pm
	 GLY 4930/GLY 6932: Office Hours (https://ufl.instructure.com/calendar?event_id=2175205&include_contexts=course_437138)	1:45pm to 3:45pm
Mon Sep 13, 2021	 GLY 4930/GLY 6932: Introduction to Simulations and Computational Techniques for Earth Sciences (https://ufl.instructure.com/calendar?event_id=2175226&include_contexts=course_437138)	12:50pm to 1:50pm

Date	Details	Due
	https://ufl.instructure.com/calendar?event_id=2175226&include_contexts=course_437138	
Wed Sep 15, 2021	 GLY 4930/GLY 6932: Introduction to Simulations and Computational Techniques for Earth Sciences https://ufl.instructure.com/calendar?event_id=2175227&include_contexts=course_437138	12:50pm to 1:50pm
Fri Sep 17, 2021	 GLY 4930/GLY 6932: Introduction to Simulations and Computational Techniques for Earth Sciences https://ufl.instructure.com/calendar?event_id=2175228&include_contexts=course_437138	12:50pm to 1:50pm
	 GLY 4930/GLY 6932: Office Hours https://ufl.instructure.com/calendar?event_id=2175206&include_contexts=course_437138	1:45pm to 3:45pm
Mon Sep 20, 2021	 GLY 4930/GLY 6932: Introduction to Simulations and Computational Techniques for Earth Sciences https://ufl.instructure.com/calendar?event_id=2175229&include_contexts=course_437138	12:50pm to 1:50pm
Tue Sep 21, 2021	 Programming assignment 2: Geomagnetic reversals https://ufl.instructure.com/courses/437138/assignments/4816298	due by 11:59pm
Wed Sep 22, 2021	 GLY 4930/GLY 6932: Introduction to Simulations and Computational Techniques for Earth Sciences https://ufl.instructure.com/calendar?event_id=2175230&include_contexts=course_437138	12:50pm to 1:50pm
Fri Sep 24, 2021	 GLY 4930/GLY 6932: Introduction to Simulations and Computational Techniques for Earth Sciences https://ufl.instructure.com/calendar?event_id=2175231&include_contexts=course_437138	12:50pm to 1:50pm
	 GLY 4930/GLY 6932: Office Hours https://ufl.instructure.com/calendar?event_id=2175207&include_contexts=course_437138	1:45pm to 3:45pm
Mon Sep 27, 2021	 GLY 4930/GLY 6932: Introduction to Simulations and Computational Techniques for Earth Sciences https://ufl.instructure.com/calendar?event_id=2175232&include_contexts=course_437138	12:50pm to 1:50pm
Tue Sep 28, 2021	 Programming assignment 3: Analyzing eqarthquake data https://ufl.instructure.com/courses/437138/assignments/4816301	due by 11:59pm
Wed Sep 29, 2021	 GLY 4930/GLY 6932: Introduction to Simulations and Computational Techniques for Earth Sciences https://ufl.instructure.com/calendar?event_id=2175233&include_contexts=course_437138	12:50pm to 1:50pm
Fri Oct 1, 2021	 GLY 4930/GLY 6932: Introduction to Simulations and Computational Techniques for Earth Sciences https://ufl.instructure.com/calendar?event_id=2175234&include_contexts=course_437138	12:50pm to 1:50pm
	 GLY 4930/GLY 6932: Office Hours https://ufl.instructure.com/calendar?event_id=2175208&include_contexts=course_437138	1:45pm to 3:45pm
Mon Oct 4, 2021	 GLY 4930/GLY 6932: Introduction to Simulations and Computational Techniques for Earth Sciences https://ufl.instructure.com/calendar?event_id=2175235&include_contexts=course_437138	12:50pm to 1:50pm
Tue Oct 5, 2021	 Programming assignment 4: Trends in atmospheric Carbon Dioxide Concentration https://ufl.instructure.com/courses/437138/assignments/4816303	due by 11:59pm
Wed Oct 6, 2021	 GLY 4930/GLY 6932: Introduction to Simulations and Computational Techniques for Earth Sciences https://ufl.instructure.com/calendar?event_id=2175236&include_contexts=course_437138	12:50pm to 1:50pm

Date	Details	Due
	include_contexts=course_437138	
Fri Oct 8, 2021	 GLY 4930/GLY 6932: Office Hours https://ufl.instructure.com/calendar?event_id=2175209&include_contexts=course_437138	1:45pm to 3:45pm
Mon Oct 11, 2021	 GLY 4930/GLY 6932: Introduction to Simulations and Computational Techniques for Earth Sciences https://ufl.instructure.com/calendar?event_id=2175237&include_contexts=course_437138	12:50pm to 1:50pm
Wed Oct 13, 2021	 GLY 4930/GLY 6932: Introduction to Simulations and Computational Techniques for Earth Sciences https://ufl.instructure.com/calendar?event_id=2175238&include_contexts=course_437138	12:50pm to 1:50pm
Fri Oct 15, 2021	 GLY 4930/GLY 6932: Introduction to Simulations and Computational Techniques for Earth Sciences https://ufl.instructure.com/calendar?event_id=2175239&include_contexts=course_437138	12:50pm to 1:50pm
	 GLY 4930/GLY 6932: Office Hours https://ufl.instructure.com/calendar?event_id=2175210&include_contexts=course_437138	1:45pm to 3:45pm
Mon Oct 18, 2021	 GLY 4930/GLY 6932: Introduction to Simulations and Computational Techniques for Earth Sciences https://ufl.instructure.com/calendar?event_id=2175240&include_contexts=course_437138	12:50pm to 1:50pm
Tue Oct 19, 2021	 Programming assignment 5 (https://ufl.instructure.com/courses/437138/assignments/4828349)	due by 11:59pm
Wed Oct 20, 2021	 GLY 4930/GLY 6932: Introduction to Simulations and Computational Techniques for Earth Sciences https://ufl.instructure.com/calendar?event_id=2175241&include_contexts=course_437138	12:50pm to 1:50pm
Fri Oct 22, 2021	 GLY 4930/GLY 6932: Introduction to Simulations and Computational Techniques for Earth Sciences https://ufl.instructure.com/calendar?event_id=2175242&include_contexts=course_437138	12:50pm to 1:50pm
	 GLY 4930/GLY 6932: Office Hours https://ufl.instructure.com/calendar?event_id=2175211&include_contexts=course_437138	1:45pm to 3:45pm
Mon Oct 25, 2021	 GLY 4930/GLY 6932: Introduction to Simulations and Computational Techniques for Earth Sciences https://ufl.instructure.com/calendar?event_id=2175243&include_contexts=course_437138	12:50pm to 1:50pm
Tue Oct 26, 2021	 Programming assignment 6 (https://ufl.instructure.com/courses/437138/assignments/4828350)	due by 11:59pm
Wed Oct 27, 2021	 GLY 4930/GLY 6932: Introduction to Simulations and Computational Techniques for Earth Sciences https://ufl.instructure.com/calendar?event_id=2175244&include_contexts=course_437138	12:50pm to 1:50pm
Fri Oct 29, 2021	 GLY 4930/GLY 6932: Introduction to Simulations and Computational Techniques for Earth Sciences https://ufl.instructure.com/calendar?event_id=2175245&include_contexts=course_437138	12:50pm to 1:50pm
	 GLY 4930/GLY 6932: Office Hours https://ufl.instructure.com/calendar?event_id=2175212&include_contexts=course_437138	1:45pm to 3:45pm
Mon Nov 1, 2021	 GLY 4930/GLY 6932: Introduction to Simulations and Computational Techniques for Earth Sciences https://ufl.instructure.com/calendar?event_id=2175246&include_contexts=course_437138	12:50pm to 1:50pm

Date	Details	Due
Tue Nov 2, 2021	 Programming assignment 7 (https://ufl.instructure.com/courses/437138/assignments/4828352)	due by 11:59pm
Wed Nov 3, 2021	 GLY 4930/GLY 6932: Introduction to Simulations and Computational Techniques for Earth Sciences (https://ufl.instructure.com/calendar?event_id=2175247&include_contexts=course_437138)	12:50pm to 1:50pm
Fri Nov 5, 2021	 GLY 4930/GLY 6932: Introduction to Simulations and Computational Techniques for Earth Sciences (https://ufl.instructure.com/calendar?event_id=2175248&include_contexts=course_437138)	12:50pm to 1:50pm
	 GLY 4930/GLY 6932: Office Hours (https://ufl.instructure.com/calendar?event_id=2175213&include_contexts=course_437138)	1:45pm to 3:45pm
Mon Nov 8, 2021	 GLY 4930/GLY 6932: Introduction to Simulations and Computational Techniques for Earth Sciences (https://ufl.instructure.com/calendar?event_id=2175249&include_contexts=course_437138)	12:50pm to 1:50pm
Tue Nov 9, 2021	 Programming assignment 8 (https://ufl.instructure.com/courses/437138/assignments/4828353)	due by 11:59pm
Wed Nov 10, 2021	 GLY 4930/GLY 6932: Introduction to Simulations and Computational Techniques for Earth Sciences (https://ufl.instructure.com/calendar?event_id=2175250&include_contexts=course_437138)	12:50pm to 1:50pm
Fri Nov 12, 2021	 GLY 4930/GLY 6932: Introduction to Simulations and Computational Techniques for Earth Sciences (https://ufl.instructure.com/calendar?event_id=2175251&include_contexts=course_437138)	12:50pm to 1:50pm
	 GLY 4930/GLY 6932: Office Hours (https://ufl.instructure.com/calendar?event_id=2175214&include_contexts=course_437138)	1:45pm to 3:45pm
Mon Nov 15, 2021	 GLY 4930/GLY 6932: Introduction to Simulations and Computational Techniques for Earth Sciences (https://ufl.instructure.com/calendar?event_id=2175252&include_contexts=course_437138)	12:50pm to 1:50pm
Tue Nov 16, 2021	 Programming assignment 9 (https://ufl.instructure.com/courses/437138/assignments/4828354)	due by 11:59pm
Wed Nov 17, 2021	 GLY 4930/GLY 6932: Introduction to Simulations and Computational Techniques for Earth Sciences (https://ufl.instructure.com/calendar?event_id=2175253&include_contexts=course_437138)	12:50pm to 1:50pm
Fri Nov 19, 2021	 GLY 4930/GLY 6932: Introduction to Simulations and Computational Techniques for Earth Sciences (https://ufl.instructure.com/calendar?event_id=2175254&include_contexts=course_437138)	12:50pm to 1:50pm
	 GLY 4930/GLY 6932: Office Hours (https://ufl.instructure.com/calendar?event_id=2175215&include_contexts=course_437138)	1:45pm to 3:45pm
Mon Nov 22, 2021	 GLY 4930/GLY 6932: Introduction to Simulations and Computational Techniques for Earth Sciences (https://ufl.instructure.com/calendar?event_id=2175255&include_contexts=course_437138)	12:50pm to 1:50pm
Tue Nov 23, 2021	 Programming assignment 10 (https://ufl.instructure.com/courses/437138/assignments/4828355)	due by 11:59pm
Fri Nov 26, 2021	 GLY 4930/GLY 6932: Office Hours (https://ufl.instructure.com/calendar?event_id=2175216&include_contexts=course_437138)	1:45pm to 3:45pm

Date	Details	Due
Mon Nov 29, 2021	 GLY 4930/GLY 6932: Introduction to Simulations and Computational Techniques for Earth Sciences (https://ufl.instructure.com/calendar?event_id=2175256&include_contexts=course_437138)	12:50pm to 1:50pm
Wed Dec 1, 2021	 GLY 4930/GLY 6932: Introduction to Simulations and Computational Techniques for Earth Sciences (https://ufl.instructure.com/calendar?event_id=2175257&include_contexts=course_437138)	12:50pm to 1:50pm
Fri Dec 3, 2021	 GLY 4930/GLY 6932: Introduction to Simulations and Computational Techniques for Earth Sciences (https://ufl.instructure.com/calendar?event_id=2175258&include_contexts=course_437138)	12:50pm to 1:50pm
Mon Dec 6, 2021	 GLY 4930/GLY 6932: Office Hours (https://ufl.instructure.com/calendar?event_id=2175217&include_contexts=course_437138)	1:45pm to 3:45pm
Mon Dec 6, 2021	 GLY 4930/GLY 6932: Introduction to Simulations and Computational Techniques for Earth Sciences (https://ufl.instructure.com/calendar?event_id=2175259&include_contexts=course_437138)	12:50pm to 1:50pm
Tue Dec 7, 2021	 Programming assignment 11 (https://ufl.instructure.com/courses/437138/assignments/4828356)	due by 11:59pm
Wed Dec 8, 2021	 GLY 4930/GLY 6932: Introduction to Simulations and Computational Techniques for Earth Sciences (https://ufl.instructure.com/calendar?event_id=2175260&include_contexts=course_437138)	12:50pm to 1:50pm