

Instructor Colin Grudzien (cgrudz@email.unc.edu)

Office Phillips 40

Office Hours Graham Memorial Lounge Tues. 11:00-12:30, Thurs. 3:30-4:30

Required Materials - There will be no official textbook for this course, however students will need the following:

- A MetEd account - <https://www.meted.ucar.edu/>
 - Registration is free, have your quiz scores sent to cgrudz@email.unc.edu
- EdGCM Student License - <http://edgcm.columbia.edu/>
 - The price of the student license is \$29, but you must contact the EdGCM support staff for the discount code. You will be required to show proof of enrollment, and a scan of your UNC student ID will work.

Course Outline - This course will focus around the following questions:

- What are the physical mechanisms that drive our climate?
- How are these processes measured and integrated into model simulations?
- How does climate impact human life, and vice versa?
- How do we make informed decisions about climate, and policy which impacts it?

The first ten weeks will focus largely around the first three questions, with the final project focusing on the last. You should expect nightly homework throughout the semester. There will be some lecture days, but class time will be largely spent on activity based learning through labs, role plays, group discussion and debates. On the class page, available here,

<http://aclimateofuncertainty.web.unc.edu/>

is a tentative schedule and it will be subject to change. For questions or concerns about any part of the class I am best reached by email, or at office hours. If you cannot reach the posted office hours I will meet by appointment.

Grading - Your course grade will be composed of the following:

- 50% Attendance and Participation
 - Class activities compliment the homework and attendance is required. This will also include coming to class prepared for the day's activities, including lab assignments
- 25% Module Homework
 - Much of the climate science background will come from MetEd training modules, and students will be graded based upon their end of module quiz scores. **Note:** the difficulty of these quizzes vary, and perfect scores are not expected on all modules. Do your best, and scores will be weighed against the class average. The homework link for each lesson is available on the weekly schedule.
- 25% Final Project
 - See the final project assignment sheet for description and grading rubric, it can be found on the class website.

Late Policy and Absence – Homework will be due at the beginning of the first class after it was assigned. We will be going through material at a steady pace and it is crucial that you stay current with assignments and attend class. For this reason I will not accept late homework, or allow make up work for absences except in special circumstances, on a case by case basis. If you expect to miss a class, or for some reason have missed a class, contact me ASAP so we can make arrangements. Otherwise absences will be noted on your participation grade.

Honor Code: All students are expected to adhere to the UNC Honor Code. You may work together on module homework, but each student needs to take the module quiz with their account to report their quiz score. Students are encouraged to collaborate on research ideas and share sources for their final project, but every student will be responsible for their own presentation.