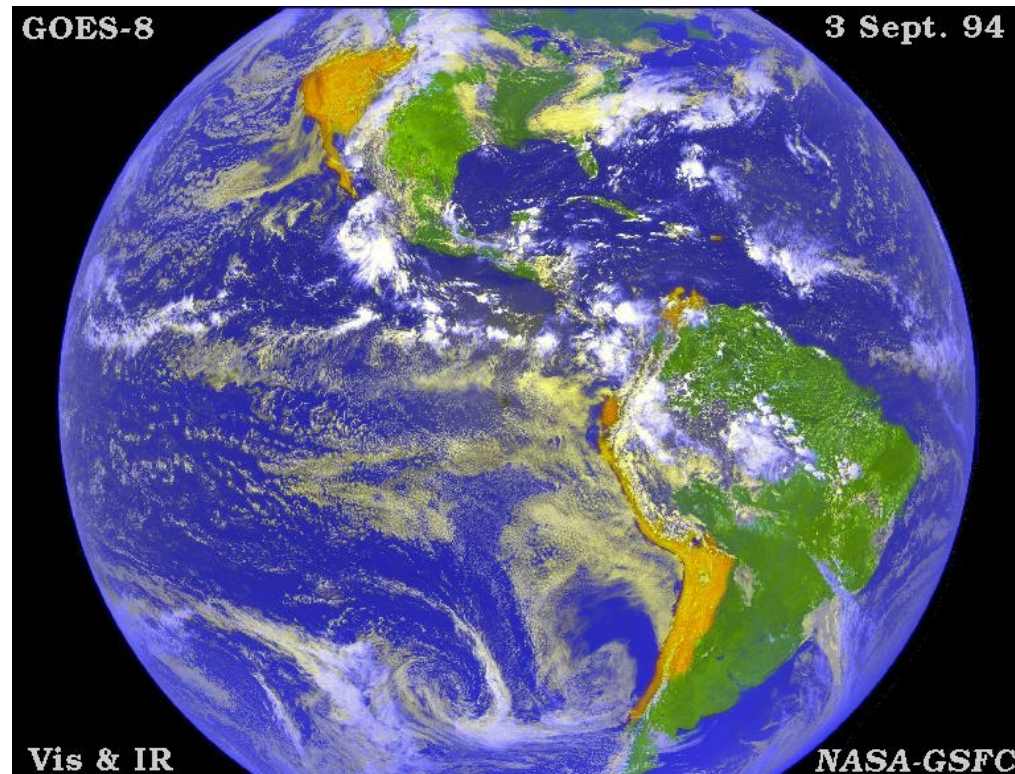


ATOC 1060-001

OUR CHANGING ENVIRONMENT

Lecture 1: Syllabus

<http://atoc.colorado.edu/~whan/ATOC1060>



a. Course Goals

Factors determine the past and present climates of the Earth System.

Factors:

Natural internal variability;

Natural external forcing;

(example: solar & volcano);

Anthropogenic forcing;

(human-induced).

Process & Impact.



Overall goal: develop an appreciation and basic understanding of the factors that contribute to the complexity and diversity of the Earth system (natural and anthropogenic), and to begin to explore the possible solutions to environmental problems and how those solutions are linked to regional and global economic and political issues.

b. Instructor & Office Hours

Instructor: Prof. Weiqing Han

Office: Duane Physics D-349

**Office hours: Tuesday & Thursday,
2pm-3pm**

Email: weiqing.han@colorado.edu

Phone: 303-735-3079

Class time: TR 12:30pm-1:45pm

Class location: Duane G1B20

c. Teaching Assistant

Sean R. Haney

ATOC PhD candidate

Office Hour: Mon & Wed 11am-12pm;

Location: Stadium, Gate 7,

ATOC Room 255-04;

Email: sean.r.haney@colorado.edu

d) Class web site

<http://atoc.colorado.edu/~whan/ATOC1060>

Syllabus;

Lecture notes;

Lecture, homework, exam schedule;

Class news; please check once per week

Homework assignments;

Project assignment;

Clickers information;

Honor Code Policy for ATOC 1060

e) Text book and materials

The Earth System, third edition,
Lee R. Kump, James F. Kasting, and
Robert G. Crane.

Chapters 1-6, 12, 15 and 16.

Two copies of the textbook: reserved
in Lester Library (Duane, G140).

f): Lecture arrangements

30 sessions:

26 class lectures, including 3 or more
lab demos;

1 Guest lecture:

(TBD)

2 exams, 1 make-up.

Clickers and your grade

Clickers will be used for this class;

Starting in the second week of class;

Available at the bookstore;

Clickers grades will be used to:

IMPROVE your final grades **as a bonus**;

Visit class website for more information on
registration

(<http://www.colorado.edu/ITS/cuclickers/students/>);

You MUST register your clicker following
the steps on the web site.

g) Course requirements

Prerequisite: ATOC 1050

Simple numerical evaluations and some high school algebra will be used on occasion.

Required: Expected to read the textbook & attend class lectures. Exams will be based on information from the textbook, class lectures, and homework assignments.

Suggestions: download class lectures before each class, and use it as an outline for taking notes. The lecture notes, however, can not substitute the lectures! – attend the classes.

We will have 3 or more lab demos, to demonstrate radiation, the earth's rotational effects on atmospheric circulation, and westward intensification in the ocean, etc.

h) Exams

3 Exams:

Two in-class exams and the final exam;

One make-up exam will be offered, if you need to miss one of the in-class exams.

If you miss both in-class exams you will get a grade of zero for 1 of them.

Inform me before you miss the exam

No make-up exam for the final.

i) Assignments & rules

3 homework assignments & 1 project.

Specific guidelines will be available on the website.

Students should download these assignments from the web and finish them on time.

Each assignment is due at the class ending time (1:45pm), in a box provided by the instructor in the front of the classroom.

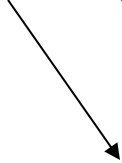
24hours late, 10% deduction;
24-48 hours late, 25% deduction;
Over 48 hours, not acceptable (you obtain a
zero point).

Identical homeworks are NOT acceptable;

Please turn in hard copies of your assignments
and staple them if they are more than one
page.

j) Grading, grade inquiry, grade posting

2 in-class multiple choice exams & the final;
20% each


$$\begin{aligned} \text{Final grade} = & (\text{Exam average}) \times 0.6 \\ & + (\text{Project average}) \times 0.1 \\ & + (\text{Homework average}) \times 0.3 \\ & + (\text{clicker grade}) \times 0.04 \end{aligned}$$

1 project: 10%;

3 assignments: each 10%;

Clicker grade: 4% bonus

The final letter grade:

A: Final grade greater than or equal to 95.0%

A-: Final grade from 90.0% to 94.9%

B+: Final grade from 86.7% to 89.9%

B: Final grade from 83.3% to 86.6%

B-: Final grade from 80.0% to 83.2%

C+: Final grade from 76.7% to 79.9%

C: Final grade from 73.3% to 76.6%

C-: Final grade from 70.0% to 73.2%

D+: Final grade from 67.5% to 69.9%

D: Final grade from 65.0% to 67.4%

F: Final grade less than 65.0%

Inquiries regarding your assignment/exam grades should be made to the TA within **2 weeks** after the TA returns the assignment/exam to you.

Grades will be posted at CULearn.

k) Honor code

All students of the University of Colorado at Boulder are responsible for knowing and adhering to the academic integrity policy of this institution. Violations of this policy may include: cheating, plagiarism, aid of academic dishonesty, fabrication, lying, bribery, and threatening behavior. All incidents of academic misconduct shall be reported to the Honor Code Council (honor@colorado.edu; 303-735-2273). Students who are found to be in violation of the academic integrity policy will be subject to both academic sanctions from the faculty member and non-academic sanctions (including but not limited to university probation, suspension, or expulsion).

Other information on the Honor Code can be found at

<http://www.colorado.edu/policies/honor.html>

and at

<http://www.colorado.edu/academics/honorcode/>

Specific guidelines regarding violations of the Honor Code as relate to ATOC 1060 can be found on the class web site under the “Honor Code Policy” link. **All students in ATOC 1060 are expected to know and understand the policies listed on both the class web site and the Honor Code web site.**

k) Honor code

Honor Code Violations – ATOC1060

Exams:

- copying answers for any portion of an exam from another student in ATOC 1060;
- providing answers for any portion of an exam to another student in ATOC 1060;
- taking an exam for another student or having another person take an exam for you;
- using any outside materials (notes, study sheets, books, etc.) for assistance while taking an exam- use of any electronic devices (including, but not limited to cell phones, laptop computers, i-pods and MP3 players) during an exam.

Homework and Project

copying any portion of a homework or project assignment from another student in ATOC 1060;

allowing another student in ATOC 1060 to copy any portion of your homework or project assignment;

submitting identical or nearly identical work for homework and project assignments.

Clickers

use of another student's clicker during class;

having another student use your clicker to answer questions for you.

1) Classroom behavior policy

Students and faculty have responsibility for maintaining an appropriate learning environment. Students who fail to adhere to such behavioral standards may be subject to discipline.

Such as: loudly talking/chatting during the lectures are not allowed.

<http://www.colorado.edu/policies/classbehavior.html>

and at

http://www.colorado.edu/studentaffairs/judicialaffairs/code.html#student_code

m) Students with disability

If you qualify for accommodations because of a disability, please submit a letter to Professor Weiqing Han from Disability Services in a timely manner (prior to the first exam) so that your needs may be addressed. Disability Services determines accommodations based on documented disabilities. Contact: 303-492-8671, Willard 322, or <http://www.Colorado.EDU/disabilityservices>.

n) CU policy on discrimination and sexual harassment

The University of Colorado at Boulder policy on Discrimination and Harassment (<http://www.colorado.edu/policies/discrimination.html>), the University of Colorado policy on Sexual Harassment and the University of Colorado policy on Amorous Relationships apply to all students, staff and faculty. Any student, staff or faculty member who believes s/he has been the subject of discrimination or harassment based upon race, color, national origin, sex, age, disability, religion, sexual orientation, or veteran status should contact the Office of Discrimination and Harassment (ODH) at 303-492-2127 or the Office of Judicial Affairs at 303-492-5550. Information about the ODH and the campus resources available to assist individuals regarding discrimination or harassment can be obtained at <http://www.colorado.edu/odh>

o) Religious observances

Campus policy regarding religious observances requires that faculty make every effort to reasonably and fairly deal with all students who, because of religious obligations, have conflicts with scheduled exams, assignments or required attendance. In this class, please contact Professor Han as soon as possible if you have a conflict with any scheduled exams or assignments due to religious obligations. See full details at http://www.colorado.edu/policies/fac_relig.html

p) Schedules - on the class web site

<http://atoc.colorado.edu/~whan/ATOC1060>

Click on “Schedules”

HW1

Exam 1: Oct. 5

HW2

Exam 2: Oct. 28

HW3

Make-up Exam: Nov. 9

1 Project

Final: Dec. 11, 7:30pm-10:00pm

q) How to succeed in this class

- Read the appropriate sections of the textbook;
- Review the online lecture notes before each lecture;
- Attend lectures and answer clickers questions;
- Check class web page at least once per week for updates, class news, etc.;
- Complete all homework and project assignments on time and in a neat manner;
- Read and follow instructions on the class web site for the assignments;
- Do not miss exams;
- Ask for help if you don't understand;
- Contact Prof. Han as soon as possible if you have any questions or concerns about the class.

Microphone

Big classroom:

Microphone effect, difficult to hear;

Sit in front rows;

Listen, regularly attend lectures;

Request repeatation.