Phys. 362: Physical Meteorology

Location and Time: M & W 11:00AM–12:15AM at 119 Natural Science Building.
Instructor: Jian Du-Caines
Office: 202 Natural Science Building
Phone: 852-0919 (office)
E-mail: jian.du@louisville.edu
Office hours: M & W 1:00PM–2:30PM or by appointment.

Objective: This course is designed to cover materials in the atmospheric science which are not covered in other classes within the atmospheric science cores. Topics such as radiative transfer, atmospheric chemistry, cloud microphysics and planetary boundary layers will be included in this course. The goal is to have the student obtain a broad range of knowledge within the field.

Textbook:
“Atmospheric Science an Introductory Survey” by Wallace and Hobbs

Prerequisites: Phys. 361

Important Dates for Fall 2015

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
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<tbody>
<tr>
<td>Classes start</td>
<td>Aug. 24 (Mon)</td>
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<tr>
<td>Last day of registration</td>
<td>Aug. 24 (Mon)</td>
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<tr>
<td>Last day to drop/add</td>
<td>Aug. 28 (Fri)</td>
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<tr>
<td>Labor Day holiday</td>
<td>Sept. 7 (Mon)</td>
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<tr>
<td>Last day to apply for degree</td>
<td>Sept. 16 (Wed)</td>
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<td>Mid-term break</td>
<td>Oct. 5-6 (Mon-Tues)</td>
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<td>Last day to withdraw</td>
<td>Oct. 26 (Mon)</td>
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<td>Thanksgiving break</td>
<td>Nov. 25-29 (Wed-Sun)</td>
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<tr>
<td>Last day of classes</td>
<td>Dec. 7 (Mon)</td>
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<tr>
<td>Reading day</td>
<td>Dec. 8 (Tues)</td>
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<td>Final exams</td>
<td>Dec. 9-15 (Wed-Tues)</td>
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<td>Degree date</td>
<td>Dec. 15 (Tues)</td>
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<td>Commencement</td>
<td>Dec. 18 (Fri)</td>
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General Lecture Schedule

Chapter 1: Introduction and Overview
Chapter 4: Radiative Transfer
Chapter 5: Atmospheric Chemistry
Chapter 6 Cloud Microphysics
Chapter 7: The Atmospheric Boundary Layer (if time permits)

Mid-term: Monday October 12 11:00 AM – 12:15 PM
Final: Monday December 14 11:30 AM – 2:00 PM

Grading Scheme
Weighting: 50% homework, 25% mid-term exam, 25% final exam.

Exams are close-booked, and non-cumulative and taken during class.
**No late homework will be accepted.**
Make-up exams will only be given for valid university excuses, and may be in a different format from the regularly scheduled exam. Planned absences during an exam, such as for university sponsored travel, should be addressed as early as possible.

Grading
Grades will be determined by the following grading scale.
A+ 97% A 93% A- 90%
B+ 87% B 83% B- 80%
C+ 77% C 73% C- 70%
D+ 67% D 63% D- 60%
F < 60%

**A note on Academic Integrity and Plagiarism**
Academic integrity is the pursuit of scholarly activity in an open, honest and responsible manner. Academic integrity is a basic guiding principle for all academic activity at the University of Wyoming, and all students are expected to act in accordance with this principle. Consistent with this expectation, all students should act with personal integrity, respect other students' dignity, rights and property, and help create and maintain an environment in which all can succeed through the fruits of their efforts.
Academic integrity includes a commitment not to engage in or tolerate acts of plagiarism, falsification, misrepresentation, or deception. Such acts of dishonesty violate the fundamental ethical principles of the academic community and compromise the worth of work completed by others.
Evidence of plagiarism may result in expulsion from the course (with an F grade) as well as dismissal or suspension from the University of Louisville.

**Students with disabilities**
If you have a physical, learning, or psychological disability and require accommodations, please let the instructor know as soon as possible or contact the UofL Disabilities Resource Center directly.

**Title IX/Clery Act Notification**
Sexual misconduct (sexual harassment, sexual assault, and sexual/dating/domestic violence) and sex discrimination are violations of University policies. Anyone experiencing sexual misconduct and/or sex discrimination has the right to obtain confidential support from the PEACC Program 852-2663, Counseling Center 852-6585 and Campus Health Services 852-6479.
Reporting your experience or incident to any other University employee (including, but not limited to, professors and instructors) is an official, non-confidential report to the University. To file an official report, please contact the Dean of Student’s Office 852-5787 and/or the University of Louisville Police Department 852-6111. For more information regarding your rights as a victim of sexual misconduct, see the Sexual Misconduct Resource Guide (http://louisville.edu/hr/employeerelations/sexual-misconduct-brochure).

The instructor reserves the right to make changes in the syllabus when necessary to meet learning objectives, to compensate for missed classes, or for similar reasons.