ENGR 4943 Air Quality Management and
METR 4653 Air Pollution Meteorology and Modeling
Spring 2014 - Syllabus*

General Information:

This unique course is cross-listed between the Engineering and Meteorology Department. Important aspects of air quality management will be covered, including air quality legislation, major sources and effects of air pollutants, monitoring of ambient concentrations and emissions, control of particle and gaseous emissions from stationary and mobile sources, atmospheric dispersion, and air-quality modeling. Important meteorological aspects that affect transport and dispersion of air pollutants will be discussed, and an introduction to dispersion models is provided.

The class will be taught interactively whereby the time in the classroom is mostly used for discussions and problem solving. **Students are required to sign up for tutorials offered by the California Air Resources Board (see details below) and review these materials before coming to class. Related quizzes posted on D2L must be completed before class to assure that the online material has been reviewed.** Alternatively, quizzes may be given at the beginning of class or.

Instructor:
Dr. Petra Klein, School of Meteorology, NWC 5339, Tel. 325-1631, e-mail: pkklein@ou.edu
Office hours: on M, W after class (4.20pm-5.00pm) or by appointment

Time and place:
MW 3:00-4:15 pm, STRC 1030

Recommended textbooks/materials:


Course #102: Air Quality Training Program (AQTP) - Online Training, California Air Resources Board, online available at https://ssl.arb.ca.gov/training/courses.php?course=102. **Enrollment in this online class is required!**


*The instructors reserves the rights to alter any or all stated policies if they feel it is in the best interests of students in this class. Any changes to the proposed syllabus will be announced in class.*
Additional Literature:

Reading/Review Assignments:
The preliminary schedule given below presents an overview of the topics covered in this class and lists related material relevant to each lecture. Additional material will be given in the lecture notes and will be handed out in class or posted on D2L. It is expected that the student is proactive and reads all relevant material. The review of the assigned modules of the CA ARB online training course #102: Air Quality Training Program (AQTP) is mandatory, as the information provided in these modules provides important background material for the discussions and exercises that are planned for the time in the classroom. Details about which parts of the different modules must be reviewed is provided before each class. Quizzes are assigned which each student must complete to proof that the modules were indeed reviewed.

Web Sites
You can find the main web site for this class on the OU Desire2Learn system (learn.ou.edu), listed as CEES 4943 Air Quality Management. Important course materials (lecture notes, assignments, quizzes, grades, etc.) and announcements will be posted on this site. Please become familiar with this site and check it frequently.

Grading:

<table>
<thead>
<tr>
<th></th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quizzes</td>
<td>15%</td>
</tr>
<tr>
<td>Homework Assignments (~4)</td>
<td>20%</td>
</tr>
<tr>
<td>2 In-class Exams</td>
<td>20% (each)</td>
</tr>
<tr>
<td>Final Exam</td>
<td>25%</td>
</tr>
</tbody>
</table>

The final will be a comprehensive exam. An excuse for missing an exam must be provided to the instructor before each exam begins. Late homework will not be accepted. All exams are closed book exams (textbooks and lecture notes cannot be used), but students are allowed to prepare and use their own notes (maximum 2 pages long).

Important Dates
1st In-Class Exam: Wednesday, February 19, 2014
2nd In-Class Exam: Wednesday, April 02, 2014
Final Exam: Monday, May 5, 2014, 4.30-6.30pm

*The instructors reserves the rights to alter any or all stated policies if they feel it is in the best interests of students in this class. Any changes to the proposed syllabus will be announced in class.*
**Attendance and Make-up Policy**
In this class, participation will be strongly encouraged. Note that some material will be available only during class. For both of these reasons, I expect 100% attendance to be the norm, but I will not check attendance and will not give points for attendance. Only under extraordinary circumstances make-ups will be given if an exam is missed. **You MUST notify me BEFORE the exams. Sickness will be accepted as an excuse only if accompanied by a note from a physician.**

**Other Important Policies**

**Reasonable Accommodation:** The University of Oklahoma is committed to providing reasonable accommodation for all students with disabilities. Students with disabilities who require accommodations in this course are requested to speak with the professor as early in the semester as possible. **Students with disabilities must be registered with the Disability Resource Center prior to receiving accommodations in this course.** The Disability Resource Center is located in Goddard Health Center, Suite 166, phone 405/325-3852 or TDD only 405/325-4173.

**Academic Misconduct:** All provisions of the Norman Campus Academic Misconduct Code shall apply in cases of academic dishonesty. Academic misconduct is defined as “any act that improperly affects the evaluation of a student’s academic performance or achievement.” All faculty at the University of Oklahoma expect academic integrity from each student. Misconduct such as plagiarism, fabrication, and fraud, as well as attempting to commit such acts or assisting others in so doing, will not be tolerated. Students are responsible for knowing the academic misconduct code, which is included in the student code [http://judicial.ou.edu/images/stories/student_codebook.pdf](http://judicial.ou.edu/images/stories/student_codebook.pdf). All instances of alleged academic misconduct will be thoroughly investigated and action will be taken according to the rights and responsibilities under the academic misconduct code described at [http://www.ou.edu/provost/integrity-rights/](http://www.ou.edu/provost/integrity-rights/).

**Schedule and topics**
A tentative schedule including a list of topics posted on D2L. This schedule provides an orientation but is still subject to change.

*The instructors reserves the rights to alter any or all stated policies if they feel it is in the best interests of students in this class. Any changes to the proposed syllabus will be announced in class.*