Page contents:

ENV H 448/548, Spring 2009
Community Air Pollution

Instructors

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Course Details

Location: HSB T-473
Time: Wednesday and Friday 2:30 PM - 3:50 PM
Prerequisites: undergraduate student (Environmental Health student, or permission of instructor); graduate student (SPH graduate student, graduate student in related field, or permission of instructor)

Description

This 3-credit course uses a lecture/seminar format, and makes use of local air pollution management resources and student oral and bulletin board discussions to provide a comprehensive overview of community air pollution. Topics covered include: 1) air pollution sources, chemistry and meteorology; 2) effects on human health and the environment; 3) climate change; 4) air quality standards, monitoring and management; 5) air pollution control technology; 6) indoor air; 7) special topics, including wood smoke and alternative fuels.

Instruction is at the level of upper-year undergraduates and graduate students in health-related or related technical fields; there are higher expectations and more requirements of graduate students. While a relatively comprehensive survey of air pollution topics is provided, there is a clear public health orientation.

Learning Objectives

link to learning objectives

Requirement and Grading Policy

Undergraduate. Requirements include: (1) a mid-term examination; (2) a final examination; (3) two referenced web-based bulletin board contributions on an assigned topic; (4) short, frequent on-line quizzes and homework assignments on readings; (5) participation in classroom discussion of assigned topics and readings. Note: Undergraduate students will not be required to lead a class discussion or to write a paper as required of graduate students (see below).

Undergraduate grading will be based on: mid-term (20%); final (30%); bulletin board (20%); quizzes/homework (15%); class participation (15%)

Graduate. Requirements include: (1) a mid-term examination; (2) a final examination; (3) two referenced web-based bulletin board contributions on an assigned topic; (4) lead class discussion on one of the following topics: hazardous air pollutants, welfare effects, climate change, air quality monitoring, air pollution standards, air pollution control; (5) one paper (8-10 pages, double-spaced, exclusive of references) intended as a critical and independent appraisal of an air pollution-related topic (topic approved by instructor and due on the next to last day of class); (6) participation in classroom discussion of assigned topics and readings. Note: Graduate students, in addition to the undergraduate student requirements, will lead one class discussion and write a paper, but will not be required to take the short quizzes or complete the short homework assignments required of undergraduate students.
Graduate grading will be based on: mid-term (15%); final (20%); bulletin board (15%); class discussion lead (15%); paper (20%); class participation (15%)

Schedule
link to class schedule

Readings
link to course readings calendar

link to reading hard copies

Lecture Slides
link to lecture slides by date

Resources
link to resource page

Send mail to: Course Email
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