

# ENV H 448 A Wi 21: Community Air Pollution

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## ENV H 448/548: Community Air Pollution

**3 credits, Graded**

**Meeting Times: Monday, Wednesday and Friday, 10:30-11:20**

**Location: Zoom**

### Instructors:

Elena Austin, ScD

Department of Environmental & Occupational Health Sciences, Box 357234

Office: Health Sciences Building F-225B (1959 NE Pacific St); Phone: 206-221-6301

e-mail: [elaustin@uw.edu](mailto:elaustin@uw.edu) (<mailto:elaustin@uw.edu>)

Joel Kaufman, MD MPH

Department of Environmental & Occupational Health Sciences, Box 357234

Office: Roosevelt #302 (4225 Roosevelt Way NE); Phone: 206-616-3501

e-mail: [joelk@uw.edu](mailto:joelk@uw.edu) (<mailto:joelk@uw.edu>)

### Teaching Assistant

Magali Blanco

Department of Environmental & Occupational Health Sciences

PhD student

e-mail: [magali@uw.edu](mailto:magali@uw.edu) (<mailto:magali@uw.edu>)

Nancy Carmona

Department of Environmental & Occupational Health Sciences

PhD student

e-mail: [nancyc9@uw.edu](mailto:nancyc9@uw.edu) (<mailto:nancyc9@uw.edu>)

**Office hours:** No scheduled office hours. Students can contact instructor or TA by phone or e-mail, or visit office on an appointment basis.

**Prerequisites:** Undergraduate student - Environmental Health student, or at least chemistry and introductory biology, or permission of instructor

Graduate student - SPH graduate student, graduate student in related health or science field, or permission of instructor.

### Course overview:

This 3-credit course uses a lecture/seminar format, and makes use of local air pollution management resources, 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, environmental justice 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:** At the end of this course the student should be able to:

1. Classify the various sources of outdoor air pollution and contrast these for the different air pollutants.
2. Describe how meteorology affects air pollution.
3. Describe and critique the types of studies used to learn about the health effects of air pollution.
4. Compare identified health effects of the different air pollutants.
5. Identify the welfare effects of air pollution.
6. Describe methods and technologies for controlling air pollution emissions.
7. Distinguish criteria air pollutants from hazardous air pollutants and compare their respective air quality management approaches.
8. Describe how air quality contributes to environmental justice and social inequality.
9. Outline the components of an air quality management program, including an air pollution monitoring network.
10. Outline the features of National Ambient Air Quality Standards (NAAQS).
11. Identify the pollutants, including greenhouse gases, that affect climate and describe how they contribute to climate change.
12. Describe the major activities of the Puget Sound Clean Air Agency (PSCAA).
13. Describe community-based air monitoring and contrast this approach to regulatory monitoring.
14. Classify the types of indoor air pollution and describe the health effects of each.

**Course Requirements and grading policy:**

### 1. Homework

- a. Short, frequent on-line homework assignments (approximately 7) focused on lecture presentations and readings.
- b. You will have one week to complete each homework assignment. Homework will be submitted and returned online through Canvas. Homework should be submitted in .docx or .pdf format. A late assignment will be docked 10% for each day that it is late up until the homework key is released or the answers are reviewed during lecture time. After that point, late homework will not be accepted. If you have any extenuating circumstances and cannot turn in a homework assignment within that time frame, please contact Dr. Austin to set up an alternate arrangement.

**c. Grading:**

Undergraduate: 25%

Graduate: 20%

**2. Participation:**

a. Attend and engage in discussion of assigned topics and readings. Students with excused absences will submit discussion questions within 24 hours of the live lecture.

b. Submit in-lecture exercises. These are not graded. Students with excused absences will submit in-lecture exercises within 24 hours of the live lecture.

**c. Grading:**

Undergraduate: 10%

Graduate: 10%

Your participation grade will be based on completion of in-class exercises as well as your response to in-class polls. You will receive 5 points for in-class exercises and 5 points for answering live polls, attending class and completing your readings.

**3. Midterm Examination:**

a. Canvas quiz, open-book, open-notes (no internet) short answer format

**b. Grading:**

Undergraduate: 30%

Graduate: 20%

**4. Final Examination:**

a. Exam week, canvas quiz, open-book, open-notes (no internet) short answer and essay format

b. Comprehensive, but focused on material since the mid-term exam

**c. Grading:**

Undergraduate: 35%

Graduate: 30%

**6. Project (for graduate students only)**

a. Small groups (2 – 4 students)

b. Prepare a short report that characterizes the air quality problems in a major US (or Chinese) city, specifically relating to PM<sub>2.5</sub> and ozone. This should focus on concentrations and their spatial and

temporal trends, air pollution sources, risk of noncompliance with air quality standards, and finally a quantitative assessment of the impact of improvements in air quality on indicators of health and monetary costs using BenMAP-CE.

c. Write-up:

i. Length – approximately 25 pages (double-spaced) including figures and tables, excluding references/sources.

d. In-lecture team presentation of the report to the class – 30 minutes

e. Grading: 20% of graduate student grade

## **Remote learning**

The 2021 Winter session will be held remotely. For this class, students are expected to attend synchronous zoom sessions held during class time on Monday, Wednesday and Friday. Some students may be unable to attend some or all synchronous sessions. These students should contact the instructor and TAs to describe their circumstances and identify accommodations. All live sessions will be recorded. Excused absences will not be penalized.

## **Attendance Policy**

While attendance to all live sessions is vital to meeting the course learning objectives, we understand that extenuating circumstances may arise. Valid excuses for missing class include death or serious illness in the immediate family, illness of the student, and, provided previous notification is given, observance of regularly scheduled religious obligations. Other reasons University-sponsored activities such as debating contests or athletic competitions. All other situations will be handled on a case-by-case basis. If the absence is planned, a written notice (via email) must be submitted to the instructors no less than one week prior to the absence. If the absence is unforeseen, a written explanation must be submitted within one week of returning to school.

## **Access and accommodations**

If you have already established accommodations with Disability Resources for Students (DRS), please communicate your approved accommodations to me at your earliest convenience so we can discuss your needs in this course. If you have not yet established services through DRS, but have a temporary health condition or permanent disability that requires accommodations, you should contact DRS at 206-543-8924 or [uwdrs@uw.edu](mailto:uwdrs@uw.edu) or [disability.uw.edu](http://disability.uw.edu). Qualifying conditions include but are not limited to mental health, attention-related, learning, vision, hearing, physical or health impacts. DRS offers resources and coordinates reasonable accommodations for students with disabilities and/or temporary health conditions. Reasonable accommodations are established through an interactive process between you, your instructor and DRS. It is policy and practice of the University of Washington to create inclusive and accessible learning environments consistent with federal and state law.

## **Religious Accommodations Policy**

Washington state law requires that UW develop a policy for accommodation of student absences or significant hardship due to reasons of faith or conscience, or for organized religious activities. The UW's policy, including more information about how to request an accommodation, is available at [Religious Accommodations Policy](https://registrar.washington.edu/staffandfaculty/religious-accommodations-policy/) [\(https://registrar.washington.edu/staffandfaculty/religious-accommodations-policy/\)](https://registrar.washington.edu/staffandfaculty/religious-accommodations-policy/). Accommodations must be requested within the first two weeks of this course using the [Religious Accommodations Request](https://registrar.washington.edu/students/religious-accommodations-request/) [\(https://registrar.washington.edu/students/religious-accommodations-request/\)](https://registrar.washington.edu/students/religious-accommodations-request/) form.

## Multi-cultural Inclusion Commitment from Environmental Health

The UW School of Public Health seeks to ensure all students are fully included in each course. We strive to create an environment that reflects community and mutual caring. We encourage students with concerns about class climate to talk to your instructor, your advisor, a member of the departmental or SPH Diversity Committee and/or the program director. [Victoria Gardner \(mailto:vg@uw.edu\)](mailto:vg@uw.edu), Assistant Dean for Equity, Diversity & Inclusion can provide resources for students with climate concerns.

We have the privilege of learning together and we have a responsibility to engage in dialogue in a way that supports learning for all of us. Here are some practices we as learning community members can strive to use in our learning process:


- My own viewpoint is important—share it. It will enrich others.
- My students' and colleagues' viewpoints are important—listen to them. Do not judge them.
- Extend the same listening respect to others I would wish them to extend to me. We all have room to grow to become better listeners in non-judgmental ways.
- Recognize that I might miss things others see and see things others might miss.
- Raise my views in such a way that I encourage others to raise theirs.
- Inquire into others' views while inviting them to inquire into mine.
- Ask questions when I don't understand something.
- Surface my feelings in such a way that we make it easier for others to surface theirs.
- Test my assumptions about how and why people say or do things.
- Challenge what was said or done, rather than make assumptions about the individual.
- Beware of either-or thinking.
- Be willing to take risks in moving outside my comfort zones.
- Affirm others.

## Academic integrity

Students at the University of Washington are expected to maintain the highest standards of academic conduct, professional honesty, and personal integrity. The UW School of Public Health (SPH) is committed to upholding standards of academic integrity consistent with the academic and professional communities of which it is a part. Plagiarism, cheating, and other misconduct are serious violations of the University of Washington Student Conduct Code (WAC 478-120). We expect you to know and follow the

university's policies on cheating and plagiarism, and the SPH Academic Integrity Policy. Any suspected cases of academic misconduct will be handled according to University of Washington regulations. For more information, see the University of Washington Community Standards and Student Conduct website.

### Readings:

- Required text:
  - Vallero, Daniel A. Fundamentals of Air Pollution. Fifth edition / Daniel A. Vallero. ed., Academic Press, 2014.
  - E-book version (UW Libraries): Go to <http://app.knovel.com/hotlink/toc/id:kpFAPE0011/fundamentals-of-air>    
 (<http://app.knovel.com/hotlink/toc/id:kpFAPE0011/fundamentals-of-air>)
- Supplements (both required and elective): as announced.

## Course Summary:










Date	Details	Due
Mon Jan 4, 2021	 <a href="#">ENV H 448/548 A Wi 21: Community Air Pollution</a> <a href="https://canvas.uw.edu/calendar?event_id=1863469&amp;include_contexts=course_1434417">https://canvas.uw.edu/calendar?event_id=1863469&amp;include_contexts=course_1434417</a>	10:30am to 11:30am
Wed Jan 6, 2021	 <a href="#">ENV H 448/548 A Wi 21: Community Air Pollution</a> <a href="https://canvas.uw.edu/calendar?event_id=1863470&amp;include_contexts=course_1434417">https://canvas.uw.edu/calendar?event_id=1863470&amp;include_contexts=course_1434417</a>	10:30am to 11:30am
Fri Jan 8, 2021	 <a href="#">ENV H 448/548 A Wi 21: Community Air Pollution</a> <a href="https://canvas.uw.edu/calendar?event_id=1863471&amp;include_contexts=course_1434417">https://canvas.uw.edu/calendar?event_id=1863471&amp;include_contexts=course_1434417</a>	10:30am to 11:30am
	 <a href="#">In-class exercise 1</a> <a href="https://canvas.uw.edu/calendar?event_id=1785999&amp;include_contexts=course_1434417">https://canvas.uw.edu/calendar?event_id=1785999&amp;include_contexts=course_1434417</a>	10:30am to 11:20am
Mon Jan 11, 2021	 <a href="#">ENV H 448/548 A Wi 21: Community Air Pollution</a> <a href="https://canvas.uw.edu/calendar?event_id=1863472&amp;include_contexts=course_1434417">https://canvas.uw.edu/calendar?event_id=1863472&amp;include_contexts=course_1434417</a>	10:30am to 11:30am












Date	Details	Due
Wed Jan 13, 2021	 <a href="https://canvas.uw.edu/calendar?event_id=1863473&amp;include_contexts=course_1434417">ENV H 448/548 A Wi 21: Community Air Pollution</a> <a href="https://canvas.uw.edu/calendar?event_id=1863473&amp;include_contexts=course_1434417">(https://canvas.uw.edu/calendar?event_id=1863473&amp;include_contexts=course_1434417)</a>	10:30am to 11:30am
Fri Jan 15, 2021	 <a href="https://canvas.uw.edu/calendar?event_id=1863474&amp;include_contexts=course_1434417">ENV H 448/548 A Wi 21: Community Air Pollution</a> <a href="https://canvas.uw.edu/calendar?event_id=1863474&amp;include_contexts=course_1434417">(https://canvas.uw.edu/calendar?event_id=1863474&amp;include_contexts=course_1434417)</a>	10:30am to 11:30am
Tue Jan 19, 2021	 <a href="https://canvas.uw.edu/courses/1434417/assignments/5909378">Homework 1</a> <a href="https://canvas.uw.edu/courses/1434417/assignments/5909378">(https://canvas.uw.edu/courses/1434417/assignments/5909378)</a>	due by 10:30am
Wed Jan 20, 2021	 <a href="https://canvas.uw.edu/calendar?event_id=1863475&amp;include_contexts=course_1434417">ENV H 448/548 A Wi 21: Community Air Pollution</a> <a href="https://canvas.uw.edu/calendar?event_id=1863475&amp;include_contexts=course_1434417">(https://canvas.uw.edu/calendar?event_id=1863475&amp;include_contexts=course_1434417)</a>	10:30am to 11:30am
Fri Jan 22, 2021	 <a href="https://canvas.uw.edu/calendar?event_id=1863476&amp;include_contexts=course_1434417">ENV H 448/548 A Wi 21: Community Air Pollution</a> <a href="https://canvas.uw.edu/calendar?event_id=1863476&amp;include_contexts=course_1434417">(https://canvas.uw.edu/calendar?event_id=1863476&amp;include_contexts=course_1434417)</a>	10:30am to 11:30am
Mon Jan 25, 2021	 <a href="https://canvas.uw.edu/calendar?event_id=1863477&amp;include_contexts=course_1434417">ENV H 448/548 A Wi 21: Community Air Pollution</a> <a href="https://canvas.uw.edu/calendar?event_id=1863477&amp;include_contexts=course_1434417">(https://canvas.uw.edu/calendar?event_id=1863477&amp;include_contexts=course_1434417)</a>	10:30am to 11:30am
Wed Jan 27, 2021	 <a href="https://canvas.uw.edu/calendar?event_id=1863478&amp;include_contexts=course_1434417">ENV H 448/548 A Wi 21: Community Air Pollution</a> <a href="https://canvas.uw.edu/calendar?event_id=1863478&amp;include_contexts=course_1434417">(https://canvas.uw.edu/calendar?event_id=1863478&amp;include_contexts=course_1434417)</a>	10:30am to 11:30am
	 <a href="https://canvas.uw.edu/courses/1434417/assignments/5909378">Homework 1</a> <a href="https://canvas.uw.edu/courses/1434417/assignments/5909378">(https://canvas.uw.edu/courses/1434417/assignments/5909378)</a> due by 10:30am (1 student)	
	 <a href="https://canvas.uw.edu/courses/1434417/assignments/5909379">Homework 2</a> <a href="https://canvas.uw.edu/courses/1434417/assignments/5909379">(https://canvas.uw.edu/courses/1434417/assignments/5909379)</a> due by 10:30am (2 students)	

Date	Details	Due
	 <a href="#">In-Class Exercise 3</a> <a href="https://canvas.uw.edu/courses/1434417/assignments/5909388">https://canvas.uw.edu/courses/1434417/assignments/5909388</a>	due by 10:30am
Fri Jan 29, 2021	 <a href="#">ENV H 448/548 A Wi 21: Community Air Pollution</a> <a href="https://canvas.uw.edu/calendar?event_id=1863479&amp;include_contexts=course_1434417">https://canvas.uw.edu/calendar?event_id=1863479&amp;include_contexts=course_1434417</a>	10:30am to 11:30am
Mon Feb 1, 2021	 <a href="#">ENV H 448/548 A Wi 21: Community Air Pollution</a> <a href="https://canvas.uw.edu/calendar?event_id=1863480&amp;include_contexts=course_1434417">https://canvas.uw.edu/calendar?event_id=1863480&amp;include_contexts=course_1434417</a>	10:30am to 11:30am
	 <a href="#">Homework 3</a> <a href="https://canvas.uw.edu/courses/1434417/assignments/5909380">https://canvas.uw.edu/courses/1434417/assignments/5909380</a>	due by 5pm
Tue Feb 2, 2021	 <a href="#">Homework 3</a> <a href="https://canvas.uw.edu/courses/1434417/assignments/5909380">https://canvas.uw.edu/courses/1434417/assignments/5909380</a> (2 students)	due by 11:59pm
Wed Feb 3, 2021	 <a href="#">ENV H 448/548 A Wi 21: Community Air Pollution</a> <a href="https://canvas.uw.edu/calendar?event_id=1863481&amp;include_contexts=course_1434417">https://canvas.uw.edu/calendar?event_id=1863481&amp;include_contexts=course_1434417</a>	10:30am to 11:30am
	 <a href="#">Homework 4</a> <a href="https://canvas.uw.edu/courses/1434417/assignments/5909381">https://canvas.uw.edu/courses/1434417/assignments/5909381</a>	due by 5pm
Fri Feb 5, 2021	 <a href="#">ENV H 448/548 A Wi 21: Community Air Pollution</a> <a href="https://canvas.uw.edu/calendar?event_id=1863482&amp;include_contexts=course_1434417">https://canvas.uw.edu/calendar?event_id=1863482&amp;include_contexts=course_1434417</a>	10:30am to 11:30am
	 <a href="#">Midterm Exam</a> <a href="https://canvas.uw.edu/courses/1434417/assignments/6065148">https://canvas.uw.edu/courses/1434417/assignments/6065148</a>	due by 8pm
	 <a href="#">Midterm Exam - Extended Time</a> <a href="https://canvas.uw.edu/courses/1434417/assignments/6071858">https://canvas.uw.edu/courses/1434417/assignments/6071858</a> (1 student)	due by 8pm



Date	Details	Due
Mon Feb 8, 2021	 <a href="https://canvas.uw.edu/calendar?event_id=1863483&amp;include_contexts=course_1434417">ENV H 448/548 A Wi 21: Community Air Pollution</a> <a href="https://canvas.uw.edu/calendar?event_id=1863483&amp;include_contexts=course_1434417">(https://canvas.uw.edu/calendar?event_id=1863483&amp;include_contexts=course_1434417)</a>	10:30am to 11:30am
	 <a href="https://canvas.uw.edu/courses/1434417/assignments/6071858">Midterm Exam - Extended Time</a> <a href="https://canvas.uw.edu/courses/1434417/assignments/6071858">(https://canvas.uw.edu/courses/1434417/assignments/6071858)</a> (1 student)	due by 8pm
Wed Feb 10, 2021	 <a href="https://canvas.uw.edu/calendar?event_id=1863484&amp;include_contexts=course_1434417">ENV H 448/548 A Wi 21: Community Air Pollution</a> <a href="https://canvas.uw.edu/calendar?event_id=1863484&amp;include_contexts=course_1434417">(https://canvas.uw.edu/calendar?event_id=1863484&amp;include_contexts=course_1434417)</a>	10:30am to 11:30am
Fri Feb 12, 2021	 <a href="https://canvas.uw.edu/calendar?event_id=1863485&amp;include_contexts=course_1434417">ENV H 448/548 A Wi 21: Community Air Pollution</a> <a href="https://canvas.uw.edu/calendar?event_id=1863485&amp;include_contexts=course_1434417">(https://canvas.uw.edu/calendar?event_id=1863485&amp;include_contexts=course_1434417)</a>	10:30am to 11:30am
Wed Feb 17, 2021	 <a href="https://canvas.uw.edu/calendar?event_id=1863486&amp;include_contexts=course_1434417">ENV H 448/548 A Wi 21: Community Air Pollution</a> <a href="https://canvas.uw.edu/calendar?event_id=1863486&amp;include_contexts=course_1434417">(https://canvas.uw.edu/calendar?event_id=1863486&amp;include_contexts=course_1434417)</a>	10:30am to 11:30am
Fri Feb 19, 2021	 <a href="https://canvas.uw.edu/calendar?event_id=1863487&amp;include_contexts=course_1434417">ENV H 448/548 A Wi 21: Community Air Pollution</a> <a href="https://canvas.uw.edu/calendar?event_id=1863487&amp;include_contexts=course_1434417">(https://canvas.uw.edu/calendar?event_id=1863487&amp;include_contexts=course_1434417)</a>	10:30am to 11:30am
	 <a href="https://canvas.uw.edu/courses/1434417/assignments/5909389">In-Class Exercise 4</a> <a href="https://canvas.uw.edu/courses/1434417/assignments/5909389">(https://canvas.uw.edu/courses/1434417/assignments/5909389)</a>	due by 10:30am
	 <a href="https://canvas.uw.edu/courses/1434417/assignments/5909382">Homework 5</a> <a href="https://canvas.uw.edu/courses/1434417/assignments/5909382">(https://canvas.uw.edu/courses/1434417/assignments/5909382)</a>	due by 10:30pm
Mon Feb 22, 2021	 <a href="https://canvas.uw.edu/calendar?event_id=1863488&amp;include_contexts=course_1434417">ENV H 448/548 A Wi 21: Community Air Pollution</a> <a href="https://canvas.uw.edu/calendar?event_id=1863488&amp;include_contexts=course_1434417">(https://canvas.uw.edu/calendar?event_id=1863488&amp;include_contexts=course_1434417)</a>	10:30am to 11:30am

Date	Details	Due
Wed Feb 24, 2021	 <a href="https://canvas.uw.edu/calendar?event_id=1930305&amp;include_contexts=course_1434417">ENV H 448 A Wi 21: Community Air Pollution</a> <a href="https://canvas.uw.edu/calendar?event_id=1930305&amp;include_contexts=course_1434417">(https://canvas.uw.edu/calendar?event_id=1930305&amp;include_contexts=course_1434417)</a>	10:30am to 11:30am
	 <a href="https://canvas.uw.edu/calendar?event_id=1863489&amp;include_contexts=course_1434417">ENV H 448/548 A Wi 21: Community Air Pollution</a> <a href="https://canvas.uw.edu/calendar?event_id=1863489&amp;include_contexts=course_1434417">(https://canvas.uw.edu/calendar?event_id=1863489&amp;include_contexts=course_1434417)</a>	10:30am to 11:30am
	 <a href="https://canvas.uw.edu/courses/1434417/assignments/5909390">In-Class Exercise 5</a> <a href="https://canvas.uw.edu/courses/1434417/assignments/5909390">(https://canvas.uw.edu/courses/1434417/assignments/5909390)</a>	due by 10:30am
Fri Feb 26, 2021	 <a href="https://canvas.uw.edu/calendar?event_id=1863490&amp;include_contexts=course_1434417">ENV H 448/548 A Wi 21: Community Air Pollution</a> <a href="https://canvas.uw.edu/calendar?event_id=1863490&amp;include_contexts=course_1434417">(https://canvas.uw.edu/calendar?event_id=1863490&amp;include_contexts=course_1434417)</a>	10:30am to 11:30am
	 <a href="https://canvas.uw.edu/courses/1434417/assignments/5909383">Homework 6 - Low-cost sensors</a> <a href="https://canvas.uw.edu/courses/1434417/assignments/5909383">(https://canvas.uw.edu/courses/1434417/assignments/5909383)</a>	due by 11:59pm
Mon Mar 1, 2021	 <a href="https://canvas.uw.edu/calendar?event_id=1863491&amp;include_contexts=course_1434417">ENV H 448/548 A Wi 21: Community Air Pollution</a> <a href="https://canvas.uw.edu/calendar?event_id=1863491&amp;include_contexts=course_1434417">(https://canvas.uw.edu/calendar?event_id=1863491&amp;include_contexts=course_1434417)</a>	10:30am to 11:30am
	 <a href="https://canvas.uw.edu/courses/1434417/assignments/5909383">Homework 6 - Low-cost sensors</a> <a href="https://canvas.uw.edu/courses/1434417/assignments/5909383">(https://canvas.uw.edu/courses/1434417/assignments/5909383)</a> (2 students)	due by 11:59pm
Wed Mar 3, 2021	 <a href="https://canvas.uw.edu/calendar?event_id=1863492&amp;include_contexts=course_1434417">ENV H 448/548 A Wi 21: Community Air Pollution</a> <a href="https://canvas.uw.edu/calendar?event_id=1863492&amp;include_contexts=course_1434417">(https://canvas.uw.edu/calendar?event_id=1863492&amp;include_contexts=course_1434417)</a>	10:30am to 11:30am
	 <a href="https://canvas.uw.edu/courses/1434417/assignments/5909391">In-Class Exercise 6</a> <a href="https://canvas.uw.edu/courses/1434417/assignments/5909391">(https://canvas.uw.edu/courses/1434417/assignments/5909391)</a>	due by 10:30am
Fri Mar 5, 2021	 <a href="https://canvas.uw.edu/calendar?event_id=1863493&amp;include_contexts=course_1434417">ENV H 448/548 A Wi 21: Community Air Pollution</a> <a href="https://canvas.uw.edu/calendar?event_id=1863493&amp;include_contexts=course_1434417">(https://canvas.uw.edu/calendar?event_id=1863493&amp;include_contexts=course_1434417)</a>	10:30am to 11:30am

Date	Details	Due
	 <a href="#">Homework 7</a> <a href="https://canvas.uw.edu/courses/1434417/assignments/5909384">https://canvas.uw.edu/courses/1434417/assignments/5909384</a>	due by 11:30am
Mon Mar 8, 2021	 <a href="#">ENV H 448/548 A Wi 21: Community Air Pollution</a> <a href="https://canvas.uw.edu/calendar?event_id=1863494&amp;include_contexts=course_1434417">https://canvas.uw.edu/calendar?event_id=1863494&amp;include_contexts=course_1434417</a>	10:30am to 11:30am
	 <a href="#">Homework 7</a> <a href="https://canvas.uw.edu/courses/1434417/assignments/5909384">https://canvas.uw.edu/courses/1434417/assignments/5909384</a> (2 students)	due by 11am
Wed Mar 10, 2021	 <a href="#">ENV H 448/548 A Wi 21: Community Air Pollution</a> <a href="https://canvas.uw.edu/calendar?event_id=1863495&amp;include_contexts=course_1434417">https://canvas.uw.edu/calendar?event_id=1863495&amp;include_contexts=course_1434417</a>	10:30am to 11:30am
Fri Mar 12, 2021	 <a href="#">ENV H 448/548 A Wi 21: Community Air Pollution</a> <a href="https://canvas.uw.edu/calendar?event_id=1863496&amp;include_contexts=course_1434417">https://canvas.uw.edu/calendar?event_id=1863496&amp;include_contexts=course_1434417</a>	10:30am to 11:30am
	 <a href="#">Homework 8</a> <a href="https://canvas.uw.edu/courses/1434417/assignments/5909385">https://canvas.uw.edu/courses/1434417/assignments/5909385</a>	due by 11:59pm
Mon Mar 15, 2021	 <a href="#">Final Exam</a> <a href="https://canvas.uw.edu/courses/1434417/assignments/5909376">https://canvas.uw.edu/courses/1434417/assignments/5909376</a>	due by 10:30am
	 <a href="#">Graduate Project</a> <a href="https://canvas.uw.edu/courses/1434417/assignments/5909377">https://canvas.uw.edu/courses/1434417/assignments/5909377</a>	
	 <a href="#">In-Class Exercise 1</a> <a href="https://canvas.uw.edu/courses/1434417/assignments/5909386">https://canvas.uw.edu/courses/1434417/assignments/5909386</a>	
	 <a href="#">In-Class exercise 2 - Ozone Formation</a> <a href="https://canvas.uw.edu/courses/1434417/assignments/5909387">https://canvas.uw.edu/courses/1434417/assignments/5909387</a>	
	 <a href="#">Roll Call Attendance</a> <a href="https://canvas.uw.edu/courses/1434417/assignments/6080611">https://canvas.uw.edu/courses/1434417/assignments/6080611</a>	