

ENV H 596 B Su 23: Current Issues In Occupational And Environmental Medicine

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Welcome to ENVH 596 B SUMMER 2023!

PHYSICAL AND BIOLOGICAL HAZARDS

Credits & Grading: 2 credits, graded

Time: Thursdays, 2:00-3:30 pm

Location: Zoom, except July 6th at 4225 Roosevelt

Deborah Havens

havensde@uw.edu

Zoom Link: <https://washington.zoom.us/j/94136973377>

The focus of this portion of the course will be on Biological and Physical Hazards. It is taught in conjunction with ENVH 596 A. This course runs on a two-year cycle to cover major biological/physical concerns that might be encountered in the occupational health arena.

The first session will be held in person. This is the only session with that requirement. Please meet in the large conference room (Room 229) at 4225 Roosevelt Way.

Homework: Readings prior to class. If there is an appropriate chapter in LaDou, 6th Edition, we will use it. It will be uploaded on the module for that week. There may also be pertinent articles assigned and suggested by the speakers. These will be available in the modules. Please read these prior to class sessions. Please be prepared to thoughtfully engage with the speakers and the topic.

The majority of our sessions will have guest speakers followed by Q&A sessions.

Student involvement: Students are asked to sign up for one of the weeks/topics. You should prepare a journal article (RCT) and board-style questions useful for discussion and review that can be efficiently discussed in 10-15 minutes. Please email/contact the instructor (havensde@uw.edu (<mailto:havensde@uw.edu>)) by Monday of the presenting week to provide the questions/briefly review the article in preparation for presentation. Please contact the instructor to coordinate a time prior to Tuesday.

Date	Topic	Speaker	Student
July 6	PPE	Gary Bangs	NA

July 13	Climate change	Professor Nicholas Bond	Mark Robinson
July 20	Firefighter/Wildland firefighter exposures	Dr. Nicholas Reul	Johnny Nguyen
July 27	Sleep Disorders and Health Effects of Shift Work/Circadian Disruption	Dr. Chunbai Zhang	Chris Alawode and Ali Kahn
August 3	Altitude Medicine	Dr. Andrew Luks	Balaji Sridhar and Anderson Penha
August 10	Agricultural workers/pesticide exposure	Dr. Eddie Kasner	Kim Brinker and Natalie Rejto
August 17	Hyperbaric exposures DiveSafe		Sophia Dillery

Course Learning Objectives:

OEM physicians and occupational health practitioners should have the knowledge and skills necessary to recognize potential chemical, physical, and biological environmental causes of health concern to individuals as well as to community health. Environmental issues most often include air, water, or soil contamination by natural or artificial pollutants. OEM physicians and occupational health practitioners should be competent in taking an exposure history that includes environmental as well as occupational

sources and must understand how to identify environmental hazards. They can also characterize risk, based on an assessment of exposure that includes potential routes of exposure and risk assessment. They understand dose-response relationships and how to compare environmental and biomonitoring data to published standards. OEM physicians and occupational health practitioners should be aware of common clinically significant environmental agents and diseases relevant to the geographic area where they practice, such as lead, asbestos, arsenic, and radon.

OEM physicians and occupational health practitioners should be able to assess, prepare and respond to individual and population risks for common occupational and environmental disorders as well as emerging and catastrophic events such as pandemics, bioterrorism, climate/weather occurrences (1).

While it is not possible to cover all biological and physical hazards, this course is a starting point for knowledge and exposure to these concepts.

1) OEM Competencies. 2021. Available at: <https://acoem.org/learning/oemcompetencies> 
(<https://acoem.org/learning/oemcompetencies>).

Grading:

Attendance is mandatory. The sessions are provided via Zoom to facilitate attendance. If you have a conflict, please discuss with the instructor in advance so that alternative or remediation options can be created. Missed classes or inadequate preparation could result in a grade decrease.

Classroom Climate

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 classroom climate to talk to your instructor, your advisor, a member of the departmental or SPH Diversity Committee and/or the program director. Victoria Gardner, Assistant Dean for Equity, Diversity and Inclusion (vg@uw.edu (<mailto:vg@uw.edu>)) is also a resource for students with classroom climate concerns and concerns related to equity, diversity, and inclusion.

Equity, Diversity and Inclusion

Diverse backgrounds, embodiments and experiences are essential to the critical thinking endeavor at the heart of University education. In SPH, students are expected:

- To respect individual differences, which may include, but are not limited to, age, cultural background, disability, ethnicity, family status, gender, immigration status, national origin, race, religion, sex, sexual orientation, socioeconomic status and veteran status.

- To engage respectfully in the discussion of diverse worldviews and ideologies embedded in course readings, presentations and artifacts, including those course materials that are at odds with personal beliefs and values.
- To encourage students with concerns about classroom climate to talk to their instructor, adviser, a member of the departmental or SPH EDI Committee, the Assistant Dean for EDI, or the program's director.

Bias Concerns

The Office of the Dean has a student concern policy, a faculty concern policy and standard HR procedures for staff concerns. Our 2018 climate survey states that most people in SPH do not report bias incidents because they do not know where to go. Students are encouraged to report any incidents of bias to someone they feel comfortable with, including instructors, advisers or department staff. They can email dcinfo@uw.edu for immediate follow up. Bias concerns can be anonymously and confidentially reported at this link <https://sph.washington.edu/about/diversity/bias-concerns>. Data is collected by the Assistant Dean for EDI and the Director of Program Operations for Student and Academic Services and tracked for resolution and areas are identified for further training.

Access and Accommodations

Your experience in this class is important to me. It is the policy and practice of the University of Washington to create inclusive and accessible learning environments consistent with federal and state law. If you have already established accommodations with Disability Resources for Students (DRS), please activate your accommodations via myDRS so we can discuss how they will be implemented in this course.

If you have not yet established services through DRS, but have a temporary health condition or permanent disability that requires accommodations (conditions include but not limited to; mental health, attention-related, learning, vision, hearing, physical or health impacts), contact DRS directly to set up an Access Plan. DRS facilitates the interactive process that establishes reasonable accommodations. Contact DRS at disability.uw.edu.

Academic Integrity

Students at the University of Washington (UW) 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.

SPH Land Acknowledgment

The University of Washington acknowledges the Coast Salish people of this land, the land which touches the shared waters of all tribes and bands within the Duwamish, Suquamish, Tulalip and Muckleshoot nations.

Religious Accommodations

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 Links to an external site.](#) [\(https://registrar.washington.edu/staffandfaculty/religious-accommodations-policy/\)](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 formLinks to an external site.](#) [\(https://registrar.washington.edu/students/religious-accommodations-request/\)](https://registrar.washington.edu/students/religious-accommodations-request/).

Feedback or Questions about this Canvas Site?

If you have feedback or questions about how to use this course site or Canvas in general, please contact Jon Sharpe, DEOHS Instruction Support Specialist - [jsharpe@uw.edu \(mailto:jsharpe@uw.edu\)](mailto:jsharpe@uw.edu), 206-221-8690.

Additional Zoom Details:

Deborah Havens is inviting you to a scheduled Zoom meeting.

Topic: **ENVH 596B**

Time: Jul 6, 2023 02:00 PM Pacific Time (US and Canada)

Every week on Thu, until Sep 7, 2023, 10 occurrence(s)

Jul 6, 2023 02:00 PM

Jul 13, 2023 02:00 PM

Jul 20, 2023 02:00 PM

Jul 27, 2023 02:00 PM

Aug 3, 2023 02:00 PM

Aug 10, 2023 02:00 PM

Aug 17, 2023 02:00 PM

Aug 24, 2023 02:00 PM

Aug 31, 2023 02:00 PM

Sep 7, 2023 02:00 PM

Please download and import the following iCalendar (.ics) files to your calendar system.

Weekly: https://washington.zoom.us/meeting/tJAsdO-hqTgpHdPmWy6LyImputGUdEhnJ9YY/ics?icsToken=98tyKuCsrgsE9OWsx6ARowlBYjCM_PwtnZegqdtkSj8VQxKbg7mI_ZIB7ZaGNb6

Join Zoom Meeting

<https://washington.zoom.us/j/94136973377>

Meeting ID: 941 3697 3377

One tap mobile

+12532158782,,94136973377# US (Tacoma)

+12063379723,,94136973377# US (Seattle)

Dial by your location

- +1 253 215 8782 US (Tacoma)
- +1 206 337 9723 US (Seattle)
- +1 346 248 7799 US (Houston)
- +1 602 753 0140 US (Phoenix)
- +1 669 219 2599 US (San Jose)
- +1 669 900 6833 US (San Jose)
- +1 720 928 9299 US (Denver)
- +1 971 247 1195 US (Portland)
- +1 213 338 8477 US (Los Angeles)
- +1 470 381 2552 US (Atlanta)
- +1 646 518 9805 US (New York)
- +1 646 876 9923 US (New York)

- +1 651 372 8299 US (Minnesota)
- +1 786 635 1003 US (Miami)
- +1 267 831 0333 US (Philadelphia)
- +1 301 715 8592 US (Washington DC)
- +1 312 626 6799 US (Chicago)
- +1 470 250 9358 US (Atlanta)

Meeting ID: 941 3697 3377

Find your local number: <https://washington.zoom.us/j/94136973377>

Join by SIP

- 94136973377@zoomcrc.com

Join by H.323

- 162.255.37.11 (US West)
- 162.255.36.11 (US East)
- 221.122.88.195 (China)
- 115.114.131.7 (India Mumbai)
- 115.114.115.7 (India Hyderabad)
- 213.19.144.110 (Amsterdam Netherlands)
- 213.244.140.110 (Germany)
- 103.122.166.55 (Australia Sydney)
- 103.122.167.55 (Australia Melbourne)
- 209.9.211.110 (Hong Kong SAR)
- 64.211.144.160 (Brazil)
- 69.174.57.160 (Canada Toronto)
- 65.39.152.160 (Canada Vancouver)
- 207.226.132.110 (Japan Tokyo)
- 149.137.24.110 (Japan Osaka)

Meeting ID: 941 3697 3377

Course Summary:

Date	Details	Due
Thu Jul 13, 2023	 Read RCT: Climate change impact fast food labels https://canvas.uw.edu/courses/1643533/assignments/8449642	due by 2pm

Date	Details	Due
Thu Jul 20, 2023	 Read pnw final report summary https://canvas.uw.edu/courses/1643533/assignments/8460134	due by 2pm
	 Read RCT: Health risks and mitigation strategies from occupational exposure to wildland fire https://canvas.uw.edu/courses/1643533/assignments/8461813	due by 2pm
Thu Jul 27, 2023	 Read Fatigue, Shift Work, and Sleep Disorders https://canvas.uw.edu/courses/1643533/assignments/8465458	due by 2pm
	 Read RCT: The Sleep of Shift Workers in a Remote Mining Operation https://canvas.uw.edu/courses/1643533/assignments/8468815	due by 2pm
	 Read Shift Work and Shift Work Sleep Disorder https://canvas.uw.edu/courses/1643533/assignments/8468816	due by 2pm
Thu Aug 3, 2023	 Read Effect of acetazolamide on visuomotor performance https://canvas.uw.edu/courses/1643533/assignments/8478872	due by 2pm
	 Read Working at High Altitude https://canvas.uw.edu/courses/1643533/assignments/8465453	due by 2pm
Thu Aug 17, 2023	 Read Pesticides and Environmental Injustice https://canvas.uw.edu/courses/1643533/assignments/8470395	due by 11:59pm