ENV H 586/596 Sp 17: Current Issues In Occupational Health At The Human Animal Interface / Occ. & Env. Medicine

Environmental Health 596/586 / Nursing 580

Current Issues In Occupational Health At The Human Animal Interface / Occ. & Env. Medicine

Spring Quarter, 2017

Thursday 3:30-5:20 p.m.  4225 Roosevelt Way NE, Room 2228

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Course Description:

This course provides a weekly seminar setting for presentations and discussions regarding a wide range of occupational and environmental health topics. It emphasizes current issues and real world situations faced in the practice of environmental and occupational health. Where relevant, it will stress the application of a "One Health" approach considering human, animal, and environmental aspects of a problem. The course will feature critical reading of the literature.

The course is designed to meet the needs of students from a variety of backgrounds, including occupational medicine, "One Health", industrial hygiene, occupational health nursing, occupational health services, and toxicology students. Format will include didactic presentations with discussion, student-led case/situation presentations followed by topical discussion, and journal club. Topics will include emerging occupational and environmental health issues and issues in administration of environmental/occupational health programs. An emphasis will be placed on issues which foster multi-disciplinary interaction between occupational/environmental health professionals (if students from multiple disciplines are enrolled). Student presentations will be made in inter-disciplinary teams when possible.

During this segment of the ENVH 596 / NURS 580 series, the Spring 2017 quarter, we will focus on topics related to occupational & environmental biological and physical hazards.

The course emphasizes the ability to critically read the current literature. More than half of the sessions will be at least partly student-led. The course will provide an opportunity for students to develop and practice presentation skills, and demonstrate expertise in locating and using relevant, current, and evidence-based information sources.

Students may register for the course on a graded or credit/no credit basis, though graded status is typically required if you are taking this to fulfill a degree requirement. OEMP trainees as well as OHAI Scholars are expected to attend and participate in the seminar.

Canvas and email are the standard medium used for communication regarding this course, and readings will be distributed generally via Canvas or e-reserves. Students are responsible for ensuring that their correct email address is on file, and for informing the instructor if unable to use either electronic medium.


At the end of this course, the student should be able to:
1. Critically review a scientific paper on a topic of interest, using a structured approach, to determine the validity of the work and to describe how it might affect the practice of occupational and environmental health.

2. Research an assigned topic, working in an interdisciplinary group, and demonstrate his or her expertise on that topic by professionally leading a portion of a class session on that topic.

3. Use electronic resources to research occupational and environmental health issues, and understand the difference between peer-reviewed and non-peer reviewed source materials.

4. Identify the major types and sources of biological and physical hazards in environmental and occupational settings, including infectious agents, noise, and high and low pressure environments, including diving and aviation and space environments.

5. Describe the major pathways of human exposure to representative biological and physical hazards in environmental and occupational settings.

6. Describe the major effects of noise, heat, cold, high pressure environments, and low pressure environments on the human body.

7. Describe basic strategies for assessing, preventing, and controlling or managing biological and physical hazards in environmental and occupational settings.

8. Identify major regulations, agencies, programs, and stakeholders related to biological and physical health hazards.

9. Formulate strategies for preventing, controlling or managing biological and physical hazards related to a specific complex situation or issue.

10. Effectively communicate information about biological and physical health risks and response strategies, both orally and in written form.

Course format:

The course consists of 10 sessions this quarter. Sessions will be in one of several formats:

- Lecture/discussion/student presentations. These will consist of a focused presentation on a subject of general interest in occupational and environmental health, followed by discussion. Some of these will be faculty-led (including guest faculty), and students will lead some. The formal portion of any one individual student's presentation should generally be no more than 15 minutes per student in length, with discussion to follow.

- Case/situation presentation and discussion. Similar to lecture/discussion, but organized around a case or situation from a practice situation. The case presentation should be completed in 5 minutes or less, followed by 10 minutes of presenter- or instructor-directed discussion of salient points. The remaining time is left for either additional presentations or discussion.

- Journal club (once per month). These will consist of two or three articles. These may either be around a selected theme, or chosen from the most recent literature from selected journals. A student will lead the journal club (see Preparing A Student Presentation, below). The presentation should be limited to 15 minutes in length. Substantial resources on critical reading of journal articles are provided on the course web site, and an outline to follow is provided at the first class session. The student should follow these instructions.

Course Requirements:

1. Class presentations. Each student will play a principal role in class presentations once or twice each quarter. The type of presentation will depend on the subject matter, and the number of presentations depends on enrollment. More detail on these presentations is provided below. If class registration is of sufficient magnitude, student groups will conduct these presentations.

2. Class attendance and participation. Students should come to the seminar prepared, and participate in the discussion. If readings are assigned for a session, these assignments should be read in advance and students should be able to discuss the material.

3. Examination. There will be no examination.

All students are expected to be able to access class materials via email and the course web-site. If this presents a problem for you let the instructor know immediately.

Basis for Grading:

Class Presentations 70%

Judged on quality of: student preparation; presentation materials; presentation style; quality of resource list or other handouts; and evidence of professionalism and interdisciplinary cooperation, if relevant.

Class Participation 30%
Judged on class attendance and participation in discussions.

This course is offered on both a graded (A section) and credit/no credit (B section) basis. The expected student contribution to the course is identical whichever grading status is chosen.

Preparing a student presentation

Choose a topic. We will balance between topics that need to get covered and topics of special interest to the class (because they are timely or related to a student's own interest or background). Because we have a long list of topics that must be covered, we need to cover several prescribed topics this quarter, as seen in the course schedule. A few of the topics may be changed, with instructor permission.

Meet with the instructor. The student or student group must meet with the instructor at least two, and preferable three or more weeks, prior to the presentation. At this meeting, the topic will be clarified, resource material and faculty identified, and a presentation format chosen. The student and instructor will agree on the scope of the presentation and best approach to preparation and presentation. If the session will be a journal club or other session requiring advance preparation by the other students in the seminar, these materials will be selected at this meeting.

Distribute materials in advance (if necessary). Materials for other students should be distributed two weeks in advance. This is especially important for journal club formats. Reading material will be distributed electronically via the web when possible.

IMPORTANT: For all student presentations covering a topic area (i.e., other than just discussing a brand new article), students should prepare a resource list that provides a list of excellent sources of information on the topic (e.g., high quality web-sites, recent review articles, seminal research articles, or book chapters). This should be distributed as a one-page sheet to the class. If a group presentation, one resource list can be prepared for the student group.

DISTANCE PARTICIPATION

Students and guests can participate via the Skype for Business (AKA Microsoft Lync) platform in this class.

For those attending remotely, a Microsoft Lync meeting has been established. Please see the below url to join. Note that you will have to be on a computer with enough privileges for the Lync Web App to download as well as using a browser that allows pop-ups. Further, it seems that the audio will work only if you have both a speaker and microphone installed and configured on your computer.

https://meet.lync.com/uwnetid-uw/taylorjh/SUZZRAC3

A tutorial for first time Lync users can be found here:

http://www.webex.com/test-meeting.html

ADVICE FOR WEBINAR PARTICIPANTS:
1. Use a webcam in a well-lighted room. Try to position room lighting in front of your face / directed towards your face rather than behind you. Close blinds behind you if backlighting appears to be a problem.
2. Use a headset with microphone. If you do not have one of these, at least use headphones for audio output (instead of the computer speakers).
3. Test your system BEFORE the class session to make sure your equipment will work.
4. Mute your microphone while you are not speaking.

Generally: Most laptops built within the last few years contain built-in webcams and microphones that should work. Be sure to use headphones.
Rather than the laptop speakers, though, or we could end up with feedback / echo.

Those of you participating from a distance: Please make a point of contributing to each class session. It helps me (and the speakers) feel less disheartened about things to know that you are really out there and not just playing solitaire. If your microphone isn’t working, you can text in a comment! If you lose audio or video, send us a message.

**Disability Resources** for Students (DRS) offers resources and coordinates reasonable accommodations for students with disabilities. Reasonable accommodations are established through an interactive process between you, your instructor(s) and DRS. If you have not yet established services through DRS, but have a temporary or permanent disability that requires accommodations (this can include but not limited to: mental health, attention-related, learning, vision, hearing, physical or health impacts), you are welcome to contact DRS at 206-543-8924 or uwdrs@uw.edu or 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.

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**Guest Speaker**

2 4/6

Occupational Infectious Diseases Part I: Bloodborne pathogens, Post exposure prophylaxis, vaccinations

Guest faculty: Cherry

**Student Presentations / Journal club**

3 4/13

Occupational Infectious Diseases Part II: Biowarfare, Disaster response: Students: Esi/Frisbie

Guest faculty: Pappaioanou
Student Presentations

4 4/20  Travel Medicine

Students: Turner

Student Presentations

5 4/27  Occupational Infectious Disease III: Zoonoses

Students: Meisner

Student Presentations / Journal Club

6 5/4  Occupational Infectious Disease IV: Pandemics, Influenza

Students: Grant

Student Presentations

7 5/11  Diving Medicine, Altitude

Guest Expert: Dulaigh

Student Presentations

8 5/18  Extremes of Temperature: Heat Illness and Hypothermia

Guest Expert: Spector

Student Presentations / Journal Club

9 5/25  Noise, Noise-induced Hearing Loss, and the Hearing Conservation Standard

Students: McConnell

Student Presentations

10 6/1  Occupational Infections V: TB, building related infections

Students: Barton

No class Finals Week

6/8
# Course Summary:

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