

Environmental Health 596 / Nursing 580
Current Issues in Occupational and Environmental Medicine
Winter 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 covering a wide range of occupational and environmental health topics. It will emphasize current issues and real world situations faced in the practice of environmental and occupational health. The course will feature critical reading of the literature.

The course is designed to meet the needs of occupational medicine, industrial hygiene, occupational health nursing, occupational health services, and toxicology trainees, and meets Autumn, Winter, and Spring quarters. It is open to other students with permission of the instructor. Topics will be organized to achieve a core curriculum that does not repeat over a two-year period, so students may take multiple (up to six) quarters of the course. Format will include didactic presentations with discussion, student-led case/situation presentations followed by topical discussion, and journal club style sessions. 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 Winter 2017 quarter, we will focus on topics related to the legal, regulatory, behavioral, and ethical framework for practice in occupational and environmental health

Among other goals, this course is designed to ensure that, upon completion of the occupational medicine training program, trainees have received information regarding a wide variety of topics important to the practice of environmental and occupational health. The course also 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 information sources.

Students may register for 1-6 quarters for the course in any sequence; up to 12 credits can be earned for taking it. Students may register for the course on a graded or credit/no credit basis, though graded status is often required if you are taking this to fulfill a degree requirement. OEMP trainees are expected to attend and participate in six quarters of the seminar, or three quarters if the trainee is enrolled for only one year.

Email and Canvas announcements are used for communication regarding this course, and readings will typically be distributed via the Canvas system. Students are responsible for ensuring that their correct email address is on file and that they can access relevant electronic media.

OEM curriculum requirements for OEM trainees stem from several agencies, including ACGME, ABPM, and ACOEM. The topics this quarter stem from several requirements:

Regarding OEM Law and Regulations, we will discuss employment law as described in ACOEM GUIDANCE STATEMENT, OEM competencies, 2014: (http://www.acoem.org/uploadedFiles/Publications/OEM_Competencies/ACOEM%20OEM%20COMPETENCIES.pdf)

...Board-certified occupational medicine specialists, physicians practicing as OEM clinical specialists, and OEM population managers should have the following additional knowledge and skills: 1. Comply with and explain applicable regulations, as well as their interpretation and enforcement, in relation to occupational health practice, to employers, employees, and patients. These include the following: i. Legislation and regulations protecting the employment rights of persons with disabilities (eg, the Americans with Disabilities Act [ADA], the ADA Amendment Act, and the Rehabilitation Act of 1973) ii. The Genetic Information Nondiscrimination Act (see ACOEM guidance document on Genetic Screening in the Workplace³⁰) iii. The Family Medical Leave Act iv. Environmental health and safety regulations v. The rules related to the various jurisdictions in which OEM work is done (workers' compensation, veterans' benefits, military disability evaluation, etc) 2. Respond in compliance with the requirements of employee/community right-to know regulations and advise individuals about their rights to access information.

Note: OSHA standards and worker's comp were covered in the autumn quarter.

Regarding the organized labor topic, ACGME: PC 13 & PC 2: Communicates with Labor; Under ACOEM comp, OEM law & regs, communicates with labor, union leaders

Environmental Exposure (ACOEM) - Core Knowledge and Skills 1. Identify sources and routes of environmental exposure and recommend methods of reducing environmental health risks. 2. Recognize common illnesses that may be impacted by environmental exposures. 3. Effectively communicate risk from various exposures: i. Indoor and outdoor air pollution ii. Water pollution iii. Hazardous waste

Regarding impairment, drug testing, and MRO functions, we will address the following:

Core Psychiatry Competency:

Identify the troubled or psychologically impaired employee and manage or refer appropriately to community resources, including employee assistance programs.

Additional skill for clinical OEM:

Review drug tests as an MRO. A listing of more specific competencies of the MRO can be found at www.mrocc.org/MROComp.pdf.

Regarding physician impairment, ACGME PROF 2 Milestone: "Accountability to patients, society and the profession (PROF2)

Level 1 - Aware of the basic causes of impairment in professionals such as fatigue, and substance use.

Level 2 - Identifies resources to address impairment of professionals.

Level 3 - Able to recognize impairment in themselves or other members of the health care team.

Level 4 - Able to respond appropriately to impairment in members of the health care team.”

Regarding ethics, ERC/NIOSH requires training in responsible conduct of research in the following topics:

- a. conflict of interest – personal, professional, and financial
- b. policies regarding human subjects, live vertebrate animal subjects in research, and safe laboratory practices
- c. mentor/mentee responsibilities and relationships
- d. collaborative research including collaborations with industry
- e. peer review
- f. data acquisition and laboratory tools; management, sharing and ownership
- g. research misconduct and policies for handling misconduct
- h. responsible authorship and publication
- i. the scientist as a responsible member of society, contemporary ethical issues in biomedical research, and the environmental and societal impacts of scientific research

Several of this quarter’s topics are covered in occupational medicine textbooks that are available online through the UW library, including:

Current occupational & environmental medicine

Joseph LaDou, 1938- editor.; Robert Harrison, 1954- editor.
2014 New York : McGraw-Hill Education

Environmental and occupational medicine

William N. Rom; Steven (Steven B.) Markowitz

©2007 Philadelphia : Wolters Kluwer/Lippincott Williams & Wilkins

Learning Objectives for Winter 2017

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. Describe employment law impacting occupational health practice, including the the main provisions of the Americans with Disabilities Act and the Revisions of the ADA in 2008, and the key case law that governs implications for occupational health practice. Also GINA and FMLA.
5. Describe the federal regulatory process in air quality and water quality health-driven standard-setting, and the relationship between federal, state, and local agencies in standard-setting and enforcement.
6. Discuss responsible conduct of research and ethical standards.
7. Describe the key legal and practical ramifications of workplace labor-management relations on the practice of occupational health.
8. Discuss physician impairment, chronic pain, and disability management.
9. Summarize the legal, social, and scientific issues governing testing of employees and prospective employees for use of legal and illegal drugs, including the role of the medical review officer and specific programs governing workers whose jobs entail a risk to public safety.

Course format:

The course consists of 10 sessions this quarter (though one has been preempted by a highly relevant regional occupational health conference which several of you may attend). Sessions will be in one of several formats:

- Lecture/discussion/student presentations. These will consist of a focussed 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 student presentations 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.

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 in a two-year cycle, 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** either handed out in class or provided to classmates via the Canvas site. If a group presentation, one resource list can be prepared for the student group.

**ENVH 596 / NURS 580
Course Schedule
Winter 2017**

	<u>Date</u>	<u>Topic</u>	<u>Student or Guest Speaker</u>
1	1/12	The Americans with Disabilities Act (ADA) and Genetic Information Nondiscrimination Act (GINA): Occupational Health implications	Debbie Cherry
2	1/19	EAP programs and physician impairment, including mental disorders	Debbie Cherry Student
3	1/26	TBD: FMLA, SS Disability, CPSC OR EPA and population exposure to air pollution, water pollution, and hazardous waste	Students
4	2/2	Drug Testing in the Workplace; MRO functions	Possible Guest Speaker
5	2/9	Labor management relations and occupational health	Students:
6	2/16	Return to Work	Possible Guest Speaker
5	2/23	Impairment, Disability and the Independent Medical Examination	Possible Guest Speaker
8	3/2	Chronic Pain: Current Concepts and Management	Possible Guest Speaker
9	3/12	Ethics: Responsible conduct of research	Debbie Cherry

OEM Grand Rounds notices are provided for your information only. Attendance is not required for ENVH 596 / NURS 580, though attendance is strongly encouraged.

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.