

OESM 104: Occupational-Related Diseases

Course Description:

An Introduction to major occupational diseases, signs and symptoms, their toxicological effects, the methods of prevention, and relevant occupational health regulations.

Course Objectives:

Upon completion of the course, students are expected to be able to:

- § Discuss functions of various governmental agencies involved in workplace health and safety
- § Explain epidemiological study methods
- § Identify advantages and disadvantages of certain epidemiological study designs
- § Calculate various rates used to measure workplace injuries and illnesses
- § Interpret data on frequency and distribution of occupational diseases
- § Discuss relevant human anatomy and physiology topics
- § Discuss relevant toxicological topics
- § Define/classify chemical & physical agents based on their adverse health effects
- § Identify specific hazards causing major occupational diseases in USA
- § Describe common symptoms of major occupational diseases
- § Explain etiology of diseases and the body's defense mechanisms
- § Describe control methods to prevent workers' overexposure
- § Discuss effective medical surveillance methods
- § Analyze a given scenario to determine causes and controls of work-related illnesses
- § Discuss relevant HIOSH regulations
- § Apply HIOSH regulations to a given scenario
- § Design an epidemiological study based on a given scenario

Textbook:

Weeks JL, Levy BS. & Wagner GR (Eds). Preventing Occupational Diseases and Injury. American Public Health Association.

Student Evaluation:

Students are expected to complete all of the following:

Exams (Exam 1:40, Exam 2: 80, Exam 3: 40)	160 points
Occupational Epidemiology Report:	
Written Paper	40 points
Oral Presentation	30 points

Grading:

A: 207-230 B: 184-206 C: 150-183 D: 115-149 F: <115

Final grades are permanent. Final "I" grades will not be allowed in this class. Final "N" grades will be given only in very rare and exceptional cases.

HCC Grading Policies:

- a. *No Show Policy.* Students must attend both of the first two class sessions of the semester or may be dropped unless they notify the instructor or the Division Chair in advance of their absence
- b. *Disappear Policy.* Students may receive an "F" grade if they do not officially drop their course by the drop deadline listed in the Academic Calendar of the current HCC catalogue or the schedule of classes.

Emergency Procedures:

- a. *Location of first aid kit:* In the back of classroom by the sink.
- b. *Evacuation of building:* Use Diamond Head and Ewa stairs and proceed to parking lot #2 (by the cafeteria). Assemble and wait for further instructions from the instructor.
- c. *Accident or Injury:*
 - 1. Call 911 for an ambulance. Give essential information:
 - Location -- building and room number, road to enter campus
 - Type of emergency and victim's condition
 - Your name and phone number
 - 2. Call 284-1270 (cell - Security):
 - To notify others that an ambulance has been summoned
 - To have Campus Security escort the ambulance to the location
 - To request other assistance

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WEEK	TOPIC	READING ASSIGNMENTS*
1	Introduction	Chapter 2
2	Occupational Epidemiology	Chapter 1
3	Human Biology Toxicology	Hand-out
4	Exam 1 (40 points, covers weeks 1-3)	
5	Dermatoses	P.103,225, 227,533,535,537
6	Occupational Lung Diseases	P.167,188,203,209,232,328, 422,523,526
7	Reproductive Disorders	P.339, 489
8	Noise-induced Hearing Loss	P.272
9	Radiation Hazards Biological Hazards	P.294,309,502,508 HIOSH Standard Chapter 201
10	Selected Toxic Materials & Harmful Physical Agents	P.144,122,126,374,419,485 HIOSH Standard Chapter 202
11	Cumulative Trauma Disorders	P.194
12	Exam 2 (80 points, covers weeks 5-11)	
13	Hearing Conservation Program Bloodborne Exposure Control Program	HIOSH Standard Chapter 200 HIOSH Standard Chapter 205
14	Respiratory Protection Program Hazard Communication Program	HIOSH Standard Chapter 64 HIOSH Standard Chapter 203
15	Exam 3 (40 points, covers weeks 13-14)	
16	Report Presentations	

* Reading assignments include hand-outs