

Course Syllabus

Adjunct Professor: Stefanos N. Kales

Course	Introduction to Occupational Health Services		
Credit	1	Method of Teaching	Lecture, Discussion and Case Studies (Each lecture will be split into 2 sessions with a brief break in the middle)

Objective

At the end of the course, the student will be able to:

- describe the diagnosis and management of illnesses following exposure to specific workplace substances, and common hazards (e.g. asbestos, lead, carcinogens, and repetitive motion).
- describe methods of surveillance and screening for early organ system effects of chemicals/hazards
- describe techniques for assessing impairment and disability
- become familiar with policy aspects of occupational health.

Outline

Discussion in the classroom based on the required readings is emphasized. Presentations of students' own experience in the workplace are welcome.

Class Schedule (90 minutes each)

Session 1 (Sunday, January 17, Lectures 9:00-10:30; 11:00-12:30; TA sessions 10:35-10:55; 1230-12:45)

1. Course Introduction (Readings: Chapters 1, 2)
2. The Occupational & Environmental History (Readings: Chapter 28)
3. Principles of Screening and Surveillance (Reading: Chapter 3)

Case Study # 1

Session 2 (Monday, January 18, Lectures 9:00-10:30; 11:00-12:30; TA sessions 10:35-10:55; 1230-12:45)

1. Cancer (Readings: Chapter 17)
2. Cumulative Trauma and Repetitive Strain Injury (Readings: Chapters 16, 27)

Case Study #2

Session 3 (Tuesday, January 19, Lectures 9:00-10:30; 11:00-12:30; TA sessions 10:35-10:55; 1230-12:45)

1. Pneumoconioses (Readings: Chapters 18, 26)
2. Cardiovascular Disorders and Work (Reading: Chapter 23)

Case Study #3

Session 4 (Wednesday, January 20, Lectures 9:00-10:30; 11:00-12:30; TA sessions 10:35-10:55; 1230-12:45)

1. Other Occupational Lung Diseases (Readings: Chapters 7, 18)
2. Metals, Solvents and Chemical Emergencies (Readings: Chapters 11, 19, 25, 37)

Case Study #4

We may add seminars by Japanese teachers for each to assist students with difficulty in language/background knowledge.

Text

Occupational and Environmental Health: Recognizing and Preventing Disease and Injury; Sixth edition. Barry S. Levy, David H. Wegman, Sherry L. Baron, and Rosemary K. Sokas.

Related readings

Will be made available in advance of the lecture. Textbook in own language may help understanding.

Achievement evaluation

There will be a written final exam after the completion of the course. Participation of the class in discussion will be appreciated.