

Course at a Glance

Spring 2018



Course Title: Exposure Assessment and Control

Course Number: PHC 6307

Dept: EOH

Credits: 3

Traditional Section: 310

Reference Number: 24270

For GDM, PHP, IMSPH, ExMPH Sections: please visit Self-Funded Program [website](#) for course reference numbers, registration procedures and deadlines.

Instructors Name: Dr. Rene Salazar

Instructors Email: rsalaza5@health.usf.edu

Course Description:

This course details the processes involved in anticipation, recognition, evaluation (assessment), and control of various chemical, physical, and biological hazards encountered in environmental, occupational, and community settings.

Format of content presentation, activities and/or instructional methods:

Web-based with powerpoint presentations, assigned textbook and journal readings, with occasional presentations in other media such as video.

Course content organization:

This course consists of modules comprised of weekly sessions.

Textbook and Ordering materials:

Required Text:

Fundamentals of Industrial Hygiene – Fifth Edition, edited by Barbara A. Plog and Patricia J. Quinlan, National Safety Council, 2002.

How to Order:

The textbook may be purchased from the National Safety Council or other book retailers.

Other Supplementary Materials:

- The Industrial Environment – its Evaluation and Control, US Department of Health, Education, and Welfare, 1973, US Government Printing Office. Link: <http://www.cdc.gov/niosh/74-117.html>
- Environmental Health Criteria 214, World Health Organization, 2000, ISBN 92 4 157214 0. Link: <http://www.inchem.org/documents/ehc/ehc/ehc214.htm>
- Guidelines for Exposure Assessment, US Environmental Protection Agency, 1992, EPA/600/Z-92/001. Link: <http://www.epa.gov/raf/publications/guidelines-for-exposure-assessment.htm>
- Exposure Analysis, edited by Wayne R. Ott, Anne C. Steinemann, and Lance A. Wallace, CRC Press/Taylor & Francis Group, 2007. Book website:

Topics:

1. Fundamentals of Exposure Control and Assessment
2. Basic Principles of Toxicology
3. Points of Exposure: Respiratory System, Skin, and Eyes
4. Use of Biomarkers as an Exposure Assessment Tool
5. Anticipation, Recognition, and Evaluation of Hazards
6. Monitoring: Devices and Field Methods
7. Gases, Vapors, and Solvents
8. Particulates
9. Noise
10. Heat Stress
11. Biological Hazards
12. Indoor Environmental Quality – Non-Industrial Settings
13. Fundamentals of Exposure Control
14. Local Exhaust, Dilution, and General (Non-Industrial) Ventilation
15. Respiratory Protection
16. Case Study

Types of assessments and activities in the course:

There is one (1) quiz per weekly session, and one (1) examination for each module. There are generally four (4) assignments for the course: one (1) initial posting, one (1) response posting, and two (2) exposure assessment exercises.

Course Expectations:

Students are expected to log onto Canvas weekly so as to complete assigned readings, take quizzes, and complete all required assignments by the posted due dates.

Required Dates to be Online: n/a

For more information about the Course, Contact:

Name: Dr. Rene R. Salazar

Contact Info: rsalaza5@health.usf.edu

Note: For problems accessing the course materials and other computer technical problems, click the **Tech Assistance** button in your course website and fill out a "Technical Problem Report Form". Tech Assistance button links to the Technical Assistance page of the Office of Educational Technology & Assessment website at: <http://health.usf.edu/publichealth/eta/techsupport.html>. Students can also receive assistance via telephone at 813-974-6666, Mon-Fri 8:30am-5pm, or via email at eta@health.usf.edu.

Technology Requirements (e.g. software or hardware):

Visit this website for software requirements and downloads:

http://health.usf.edu/publichealth/eta/students_tech_requirements.htm

Please Note: The information on this document is subject to change. The course instructor has the right to change any information posted in this document. Students should check the official course syllabus released during the first week of classes for any updates to this document.