

Course at a Glance

Fall 2015

Course Title: Hazardous Materials & Communication in the Workplace

Course Number: PHC 6934

Dept: EOH

Credits: 3

Traditional Section: 310

Reference Number: 83994

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

Instructor Name: Dr. Raymond Harbison | Dr. Giffe Johnson

Instructor Email: rharbiso@health.usf.edu | gtjohnso@mail.usf.edu

Course Description:

This course identifies hazardous materials used in the industrial workplace. The focus will be on the physical chemical properties, toxicity, and hazards associated with industrial chemicals. The student will learn the hazards associated with various industrial chemicals that include metals, caustics, gases, aliphatic, aromatic, and chlorinated hydrocarbons, pesticides, and plastics. The hazards associated with these chemicals will be studied.

Students will learn the physical and chemical hazards associated with the industrial chemicals as well as the toxicity and human workplace risks. Dose response principles will be used to characterize allowable workplace exposure levels that are not hazardous. Course topics will include excessive exposure signs and symptoms and treatment regimens when available. Interdisciplinary information will be integrated into the course to enhance the perspectives for identifying and managing occupational hazards. Topics for presentation will include industrial toxicology, exposure assessments, hazard identifications, and methods for evaluating workplace injuries and risks.

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

Web-based (in Canvas).

Course content organization:

The course is organized by week, with a total of 16 weekly units. New material is made available on Mondays. Content to be reviewed are assigned on a weekly basis, other assignments are described in the syllabus.

Textbook and Ordering materials:

Recommended Text (but not required):

Harbison, R.D. (editor) **Hamilton & Hardy's Industrial Toxicology**. 5th ed. St. Louis: Mosby, c1998

How to Order:

Book no longer in print, however it is available Used on <http://www.amazon.com>

Course Learning Objectives:

Students who successfully complete this course will be able to:

- Develop exposure assessment knowledge for workplace safety.
- Characterize the role of Public Health professionals in occupational health risk assessment.
- Assess biological monitoring information to aid in workplace risk management.
- Evaluate and identify chemical induced organ damage and mechanisms of actions.

- Categorize hazards associated with chemical compounds that have been used in industrial and occupational settings.
- Analyze the role of risk analysis in preventing exposure to industrial toxicants and as a tool in risk management.

Types of assessments and activities in the course:

Assignments include homework questions, papers and exams, and may be found in the "Assignments" section of both the Student Course Guide and electronic classroom.

Additional readings, internet-work and assignments will be posted on-line at the beginning of each week of the course.

Assignment due dates will be posted with assignment directions. All assignments will have due dates of a week or more.

Course Expectations:

EACH STUDENT IS RESPONSIBLE FOR THE FOLLOWING:

1. Completely reading the Student Course Guide in its entirety prior to making inquiries with the instructor to ensure that the issue or topic is not covered. Should you have any questions about the Student Course Guide or the course that is not covered or should you need clarification, please contact the instructor via email.
2. Reading their Canvas email for important updates and course information on a weekly basis.
3. Read the assignments in a timely manner to ensure all homework questions, exams and papers are properly and specifically addressed.
4. Participate in discussions as necessary via the online classroom to complete assignments fully.
5. Check the "Professor Notes" in the online classroom at the beginning of each week and refer to them as necessary to ensure comprehension of course material and assignments.
6. Ensuring assignments are completed ON TIME. Assignments include homework questions, papers and exams, and may be found in the "Assignments" section of both the Student Course Guide and electronic classroom. Late submissions will be considered but deductions will apply. No assignment submitted after the last day of class will be accepted.
7. It is the student's responsibility to ensure the instructor receives the assignment and, if necessary, follows up to ensure the assignment has been received and is readable.

Required Dates to be Online: n/a

For more information about the Course, Contact:

Dr. Raymond Harbison
rharbiso@health.usf.edu
 813-974-3467

Dr. Giffe Johnson (co-Instructor)
gtjohnso@mail.usf.edu
 813-974-3466

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.