

The University of North Carolina at Chapel Hill
Gillings School of Global Public Health

**PHNU 787: Fundamentals of Industrial Hygiene
Distance Education Course
2014 Fall Semester**

Classes begin August 19, 2014 and end December 3, 2014

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Credits: 2 hours

Course Prerequisites: None

COURSE DESCRIPTION

This course is designed as an introduction to the basic concepts of industrial hygiene and to provide students with a broad understanding of the field. Major emphasis of the course will be recognition of hazards in the workplace, evaluation or measurement of those hazards, and application of control strategies. Target audience is occupational health nurses.

OBJECTIVES

1. Discuss the role of industrial hygiene and collaboration with other members of the occupational health team.
2. Identify, describe, and integrate the principles of anticipation, recognition, evaluation, and control of potential health hazards in the workplace.
3. Apply industrial hygiene principles to hazard evaluation in the workplace.

REQUIRED TEXTBOOKS/READINGS

Plog, B.A. & Quinlan, P. (2012). Fundamentals of Industrial Hygiene (6th Ed.). Chicago: National Safety Council. Text is available at the UNC Health Affairs Bookstore and the National Safety Council.

TEACHING METHODS

Lectures/discussions (on-line)

- Group work
- Independent learning activities
- Assigned readings
- Preparation of written assignments and exercises

EVALUATION

Evaluation	Percentage of Grade	Type of Assignment	Assignments Due
1. Participation <ul style="list-style-type: none"> a. Postings to Discussion Forum <ul style="list-style-type: none"> i. Occupational Health Team ii. MSDS iii. Hazard Control Strategy b. Self-assessment quizzes <ul style="list-style-type: none"> i. Module 1 ii. Module 2 iii. Module 3 	30%	Individual Individual	Aug. 26-Sept. 2, 2014* (<i>note date</i>) Sept. 22-Sept. 29, 2014 Oct. 27-Nov. 3, 2014 September 15, 2014 October 13, 2014 November 17, 2014
2. Application Exercises <ul style="list-style-type: none"> a. Noise b. TWA/TLV c. Hazard Control 	30%	Individual	September 8, 2014 October 6, 2014 November 10, 2014
3. Virtual Walkthrough Exercise	20%	Group	December 1, 2014
4. Final Examination	20%	Individual	December 5-10, 2014
5. Course Evaluation	N/A	Individual	End of the course

*Assignments are due Mondays by 12noon; Note the exception of Tuesday, September 2 as Monday, September 1 is Labor Day holiday.

GRADING

Students will be graded on three main areas: Participation, Application Exercises, Walkthrough Exercise, and a Final Examination.

Participation (30%)

- Postings to the Discussion Board are one measure of your participation. At least 2 quality postings need to be made for each topic/question area. (15%)
- Self-assessment quizzes consisting of multiple-choice questions will be available at the end of each module. The questions will serve as one indicator of your understanding of the material and participation in the course. They will also provide you an opportunity to review for the final examination. (15%)

Application Exercises (30%)

Application exercises are another way for you to gauge your learning and understanding of certain skills.

Virtual Walkthrough Exercise (20%)

The class will be divided into groups and assigned a group name. The class will take a virtual walkthrough tour of a newspaper printing company. During the tour of the various departments within the company, the basic steps required in printing a newspaper will be described. You will see the printing press, plate making, insert compilation and newspaper binding, the warehouse, ink and solvent rooms, and the maintenance areas. As you take the tour, notice potential and obvious hazards and control measures taken to protect workers. Copies of Material Safety Data Sheets are provided as pdf documents. The group will write a paper based on the assignment. One question is required of all groups; each group will then select an additional question to answer. The paper should be 8-10 double spaced typed pages in 12 point font and follow the APA format. References should be current. Assignments will be made early in the course so students will have sufficient time to complete the work. More detail is provided in the Group Assignment sheet.

Final Examination (20%)

Each student will take an on-line multiple-choice final examination based on the material covered during the course.

HONOR CODE

The University of North Carolina at Chapel Hill has had a student-administered honor system and judicial system for over 100 years. The system is the responsibility of students and is regulated and governed by them, but faculty share the responsibility. If you have questions about your responsibility under the honor code, please bring them to your instructor or consult with the office of the Dean of Students or the Instrument of Student Judicial Governance. This document, adopted by the Chancellor, the Faculty Council, and the Student Congress, contains all policies and procedures pertaining to the student honor system. Your full participation and observance of the honor code is expected.

Information about the Honor Code is listed in the Student Handbook. All written work should be submitted with the following pledge with your signature: "On my honor, I have neither given nor received unauthorized aid on this assignment."

OTHER

1. By enrolling as a student in this course, you agree to abide by the UNC-Chapel Hill policies related to the Acceptable Use of online resources. Please consult the Acceptable Use Policy (<http://help.unc.edu/1672>) on topics such as copyright, net-etiquette, and privacy protection.
2. As part of this course, you may be asked to participate in online discussions or other online activities that may include personal information about you or other students in the course. Please be respectful of the rights and protection of other participants under the UNC-Chapel Hill Information Security Policies (http://its.unc.edu/ITS/about_its/its_policies/index.htm) when participating in online classes.
3. When using online resources offered by organizations not affiliated with UNC-Chapel Hill, such as Google or Youtube, please note that the Terms and Conditions of these companies and not the University's Terms and Conditions apply. These third parties may offer different degrees of privacy protection and access to rights to online content. You should be well aware of this when posting content to sites not managed by UNC-Chapel Hill.

4. When links to sites outside of the unc.edu domain are inserted in class discussions, please be mindful that clicking on sites not affiliated with UNC-Chapel Hill may pose a risk for your computer due to the presence of malware on such sites.

VALUING DIVERSITY

Promoting and valuing diversity in the classroom enriches learning and broadens everyone's perspectives. Inclusion and tolerance can lead to respect for others and their opinions, which is valuable in itself and is critical to maximizing the learning that occurs in this course. Therefore, this class follows principles of inclusion, tolerance, and respect for multiple and diverse points of view.

COURSE EVALUATION

All students are expected to complete the on-line course evaluation during the two week time window at the end of the course as listed on the UNC Academic Calendar. You should receive an email guiding you in the process. Course evaluations are important so we can make improvements in the course.

GRADING SCALE

H: 93 to 100
P: 85 to 92
L: 80 to 84
F: Below 80