

Industrial Hygiene (EHSC 4100/6100)
Fall Semester 2007
Department of Environmental Health Science
The University of Georgia
Athens, GA

Instructor	<p>Mr. Arthur D. Tippit, CIH 204 Environmental Health Science Building Phone: 542.0606 CP: 770.330.5933 Office Hours: MW 8:00 to 12:30</p> <p>Teaching Assistant: Ben Hale BHale@UGA.edu Office hours by appointment only</p>
Catalog Description	<p>The anticipation, recognition, evaluation and control of those environmental factors, arising in or from the workplace, which can cause sickness, impaired health and well being, or significant discomfort and inefficiency among workers or among citizens in the community.</p>
Credit	<p>3.0 Hours</p>
Prerequisite	<p>CHEM 2211-2211L; PHYS 1111-1111L</p>
Meeting Time	<p>Lectures: 11:15 a.m. - 12:05 p.m., Monday & Wednesday Labs: 2:30 - 4:20 p.m., Monday</p>
Meeting Location	<p>Lectures: Environmental Health Science, Room 116 Labs: Environmental Health Science, Laboratory Room 120</p>
Text	<p>DiNardi, S.R., 1998. The Occupational Environment--Its Evaluation and Control. American Industrial Hygiene Association.</p> <p>We will be using WebCT throughout semester. The lecture outlines and other information will be posted on the WebCT's course page</p>

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INDUSTRIAL HYGIENE (EHSC 4100/6100)

Professor Arthur D. Tippit, CIH

Course Learning Objectives	Students will gain an understanding of the fundamentals of industrial hygiene and use of basic industrial hygiene sampling equipment.
Graduate Level Requirements	Graduate level students are required to design an air monitoring scheme and conduct indoor air monitoring for use in Indoor Air Quality lab.
Make-up Policy	If a valid or documented excuse for missing an exam then a make-up will be administered.
University Honor Code and Academic Honesty Policy	All academic work must meet the standards contained in "A Culture of Honesty." All students are responsible to inform themselves about those standards before performing any academic work. http://www.uga.edu/ovpi/academic_honesty/culture_honesty.htm .
Students with Disabilities	Students with disabilities who require reasonable accommodations in order to participate in course activities or meet course requirements should contact the instructor or designate during regular office hours or by appointment.
General Disclaimers	The course syllabus is a general plan for the course; deviations announced to the class by the instructor may be necessary.
Other	<i>Please turn off all cell phones and pagers</i>

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Basic Course Policies:

1. The instructor expects regular attendance of all students at all classroom sessions.
2. Lab attendance is mandatory. If absent (without prior approval), a deduction of 10 points to student's final lab average will be made for each absence.
3. Class discussion is not only desired, but is considered an important and integral component of the classroom sessions and therefore is encouraged.
4. The instructor expects the students to read all assigned material in the text, as well as journal articles and lab exercises assigned during the term.
5. Handout materials may be given out in class to supplement your class notes. These handouts become part of the lecture notes and should be studied for exams.
6. Five examinations will be given.
7. Seven (7) laboratory reports will be required of each student during the quarter. Each laboratory report will be due at the beginning of the next lab.
8. Grading will be based on the following:

Exams (Five including final).....	45%
Lab Reports (7).....	35%
Lab Final	15%

EHSC 4100/6100
Industrial Hygiene
 (Subject to Change)

DATE	TOPIC	ASSIGNED READING
August 20 (Monday)	Course Overview and Terms	Chapter 1
August 20 Lecture During Lab Period	Industrial Hygiene Overview	Chapter 6 Chapter 38 (pp. 1033-1036)
August 22 (Wednesday)	Occupational Exposure Limits	Chapters 2 and 13
August 27 (Monday)	Occupational Exposure Limits	Chapters 2 and 13
August 27 Lecture During Lab Period	Problem Set Exercise and Hazard Communication	Handouts and Chapter 40
August 29 (Wednesday)	Hazard Communication	Chapter 40
September 3 (Monday)	Holiday (Labor Day)	No Class
September 5 (Wednesday)	Test #1	
September 10 (Monday)	Exposure Assessment	Chapter 15
September 12 (Wednesday)	Air Sampling Methodology	Chapters 8 - 10
September 17 (Monday)	Air Sampling Methodology	Chapters 8 - 10
September 19 (Wednesday)	Air Sampling Analyses	Chapter 11
September 24 (Monday)	Air Sampling Analyses	Chapter 11
September 26 (Wednesday)	Test #2	
October 1 (Monday)	Controls	Chapters 31 – 33
October 3 (Wednesday)	Controls	Chapters 31 – 33
October 8 (Monday)	Case Study	
October 10 (Wednesday)	Noise	Chapter 20
October 15 (Monday)	Noise	Chapter 20
October 17 (Wednesday)	Test #3	Chapter 20
October 22 (Monday)	PPE	Chapters 36
October 24 (Wednesday)	Respiratory Protection	Chapters 35
October 29 (Monday)	Respiratory Protection	Chapter 35
October 31 (Wednesday)	IH in the Hazardous Waste Field	Chapter 47, pp. 1214-1219
November 5 (Monday)	IH in the Hazardous Waste Field	Chapter 47, pp. 1214-1219
November 7 (Wednesday)	Test #4	

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Industrial Hygiene (Continued)
 (Subject to Change)

November 12 (Monday)	Temperature Extremes	Chapters 24 and 25
November 14 (Wednesday)	Indoor Air Quality	Chapter 19
November 19 (Monday)	IH Case Study	Chapter 42
November 21 (Wednesday)	Thanksgiving Holiday	
November 26 (Monday)	IH Related Regulations - Asbestos	Read from online @ www.OSHA.gov (Asbestos – OSHA 1910.1001 and 1926.1101)
November 28 (Wednesday)	IH Related Regulations - Confined Space	Read from online (OSHA 1910.146)
December 3 (Monday)	IH Related Regulations - Chromium	Read from online (Chromium – OSHA 1910. 1026)
December 5 (Wednesday)	Last Day of Class - Review	
December 10 (Monday)	Test #5 - Final	

EHSC 4100L/6100L
Industrial Hygiene Laboratory
 Subject to Change

DATE	TOPIC	ASSIGNED READING
August 20 (Monday) Lecture 2:30 - 3:20 P.M.	IH Overview and Problem Set Review	
August 27 (Monday) Lecture 2:30 - 3:20 P.M.	Hazcom, Problem Set Review and Laboratory Requirements	Chapter 40
September 3 (Monday)	Holiday (Labor Day)	
September 10 (Monday)	Air Sampling Equipment Overview	Chapter 8
September 17 (Monday)	Air Sampling Pump Calibration and Filter Weighing (problem set)	Chapter 12 pp. 251-254
September 24 (Monday)	Conducting Air Sampling Lab	
October 1 (Monday)	Ventilation Lab	Chapters 31 – 33
October 8 (Monday)	Noise Equipment Overview	Chapter 20
October 15 (Monday)	Conducting Noise Measurements Lab	Chapter 20
October 22 (Monday)	Overview of Respiratory Protection	Chapter 35
October 29 (Monday)	Qualitative and Quantitative Fit-Testing Lab	Chapter 35
November 5 (Monday)	Hazwoper Equipment, Direct Reading Equipment and Detector Tubes	Chapter 9, pp. 199-201
November 12 (Monday)	Heat Stress Monitor Lab	
November 19 (Monday)	Indoor Air Quality Lab (Graduate Students will design and conduct microbial sampling scheme and present to class)	Chapter 42
November 26 (Monday)	Lab Review	
December 3 (Monday)	Lab Final	