



AUD 814 – HEARING CONSERVATION **Spring Semesters** (Alternate Years)

Thursdays, 12:30 – 3:20pm
KUMC, HC Miller Bldg, 4th floor Conference Room

Instructor: Susan Megerson
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Office Hours:

I will be available for office hours by appointment at mutually convenient times/locations. Please feel free to call or e-mail me at any time if you have questions.

Learner Objectives:

Hearing Conservation is a dynamic, interdisciplinary process involving audiology, occupational medicine/nursing, industrial hygiene, safety, and acoustical engineering, as well as politics and law. This class covers the basic principles of noise and noise-induced hearing loss, the regulations influencing hearing loss prevention, the major components of hearing conservation programs in occupational settings, environmental noise, and general public health efforts. Upon successful completion of this course, students will have an understanding of noise and chemical agents and their effects on hearing, pertinent governmental regulations, the elements of a successful hearing conservation program, and the ability to apply these principles in a practical setting.

ASHA Certification Standards: Students enrolled in this course will acquire knowledge and skills associated with the following ASHA standards for certification in Audiology, as they relate to hearing conservation, per section IV: B4, B10, B11, B13, B16, B20; C1, C2, C3, C4, C6; D1, D2, D3, D6, D7, D11, D12, D13, D14, D15, D16, D17, D18.

Textbooks/Primary References:

- *The Noise Manual, Fifth Edition*, Berger, Royster, Royster, Driscoll and Layne (Eds), American Industrial Hygiene Association Press, 2003.
- *Preventing Occupational Hearing Loss: A Practical Guide*, Franks et al (Eds), U.S. Department of Health and Human Services (NIOSH) Publication Number 96-110, 1996.
- Additional readings as announced.

Assignments:

- Written exam #1 (midterm): 150 points
- Written exam #2 (final): 150 points

- Homework assignments:
 - Exercise 1 – Regulatory Interpretation: 10 points
 - Exercise 2 – Noise Measurement: 30 points
 - Exercise 3 – Hearing Protection Fitting: 25 points
 - Exercise 4 – Audiologic Evaluation: 15 points

- Class participation: 20 points
 - Class attendance and discussions
 - Current events

- Total possible credit: **400 points**

Course Grading Scale:

360-400 points = A
 320-359 points = B
 280-319 points = C
 240-279 points = D

Students with disabilities:

- Learning assistance, academic performance enhancement, and psychological services at KUMC are free, confidential and available at Student Counseling and Educational Support Services by calling 588-6580 or visiting G116 Student Center.
- Any student in this course who needs an accommodation because of a disability in order to complete the course requirements should contact the instructor or the Equal Opportunity Disability Specialist (588-7813) as soon as possible.

Academic dishonesty:


- Academic dishonesty is a serious ethical violation and will not be tolerated. Cheating on any exam or plagiarism on any written assignment will result in a grade of zero on that exam/assignment.
- The College of Liberal Arts and Sciences Academic Misconduct policy may be found at <http://www.clas.ku.edu/faculty/policies/misconduct.pdf>.

Other important points:

- This is an interactive course. Participation is expected of all students through regular attendance, class discussions, and sharing of current events. Come to class having read the assigned text chapters.

- You are expected to visit the class “Angel” website a minimum of once per week to check for any new announcements, discussion items, study guides, or documents to be downloaded.
- Exams are in multiple choice, short answer and essay format, and are not cumulative, although the final exam will draw on concepts learned throughout the course. Exams are based on readings, lectures, handouts, and class exercises.
- All homework assignments must be turned in by start of class on the date due; grades for assignments received after that time will be penalized 10% per day.
- Any student who does not understand and/or accept the contents and terms of this syllabus must notify the instructor in writing within one week after receiving this syllabus.

Course Outline – Spring, 2007 (subject to change):

Date	Topics	Readings	Assignments Due
Jan. 25	Noise as a Public Health Concern / Basic Epidemiological Concepts	<i>The Noise Manual, 5th Edition, 2003</i> (TNM): Ch. 1	
Feb. 1	Effects of Noise & Other Occupational / Environmental Agents on Hearing	TNM: Ch. 5	
Feb. 8	Standards and Regulations	TNM: Ch. 16	
Feb. 15	Sound Measurement / Noise Surveys (take home SLMs/dosimeters)	TNM: Ch. 7	Exercise 1: Regulations
Feb. 22	Sound Measurement (cont'd) and Overview of Engineering Controls		
Mar. 1	Listening in Noise / Hearing Protection Devices – Part I	TNM: Ch. 10	Exercise 2: Noise measurements
Mar. 8	Hearing Protection Devices – Part II	E-A-R Log 19	
Mar. 15	Midterm Exam		Midterm Exam
Mar. 22			
Mar. 29	Health Behavior Concepts/ Education & Motivation	TNM: Ch. 8	
Apr. 5	Audiometric Monitoring – Part I	TNM: Ch. 11; pp 457-486	Exercise 3: HPD fitting
April 12	Audiometric Monitoring – Part II (audiogram evaluation & follow-up)	TNM: Ch. 11; pp 486-512	
Apr. 19	Evaluating HCP Effectiveness	TNM: Ch. 12	
Apr. 26	HCP on-site visit: Kansas City, KS (meet at manufacturing site at 12:45pm)	TNM: Ch. 6	
May 3	Evaluating NIHL / Workers' Compensation	TNM: Ch. 18	Exercise 4: Audiologic evaluation
May 10	Environmental / Community Noise	TNM: Ch. 15	
May 17	Final Exam		Final Exam

