

Hearing and Speech Department
AUD 821 – Hearing Aids II
Fall Semester, 2011
(3 credit hours)

Time: Monday, 1:00 – 3:50 pm

Place: Lecture 4th Floor Conference Room, H.C. Miller Bldg.
Lab(s) – Audiology Clinic, 4th Floor, H.C. Miller Bldg.

Instructors: Brian Earl, Ph.D., CCC-A
(913) 963-0560, e-mail: bearl@kumc.edu

Office Hours: Instructor will be available on Monday afternoons following class or by appointment at mutually convenient times.

Course Description:

The advanced study of the theoretical bases, techniques, and clinical application of hearing aids and their assessment. Participants will review, present, and discuss contemporary issues in hearing aid literature and research. Prerequisite: AUD 819. LEC

ASHA Standards:

Students enrolled in this class will acquire knowledge and skills associated with the following ASHA standards for certification in Audiology:

B2. Patient Characteristics (e.g., age, demographics, cultural and linguistic diversity, medical history and status, cognitive status, and physical and sensory abilities) and how they relate to clinical services.

B16. Medical/surgical procedures for treatment of disorders affecting auditory and vestibular systems.

B21. Manual communication, use of interpreters, and assistive technology.

D17. Use of instrumentation according to manufacturer's specifications and recommendations.

E1. Interact effectively with patients, families, other appropriate individuals, and professionals.

E2. Develop and implement treatment plan using appropriate data.

E3. Discuss prognosis and treatment options with appropriate individuals.

E4. Counsel patients, families, and other appropriate individuals

E5. Develop culturally sensitive and age-appropriate management strategies.

E7. Perform hearing aid, assistive listening device, and sensory aid assessment.

E8. Recommend, dispense, and service prosthetic and assistive devices.

E9. Provide hearing aid assistive listening device, and sensory aid orientation.

E10. Conduct aural rehabilitation.

E11. Monitor and summarize treatment progress and outcomes.

E12. Assess efficacy of interventions for auditory and balance disorders.

E13. Establish treatment admission and discharge criteria.

E14. Serve as an advocate for patients, families, and other appropriate individuals.

E15. Document treatment procedures and results.

E16. Maintain records in a manner consistent with legal and professional standards.

E17. Communicate results, recommendations, and progress to appropriate ind.

E18. Use instrumentation according to manufacturer's specifications and recommendations.

E19. Determine whether instrumentation is in calibration according to accepted standards.

Course Objective: To provide the student with an understanding of the theories, techniques, and rationales of recommending and fitting amplification. Students will acquire the preparatory skills to recommend, fit, and service amplification devices for all individuals.

Course Format: Lecture + Laboratory + Presentation

Grading Policy:

Written examinations will be given after selected sequences of study on the dates indicated on the attached schedule of lecture topics. Laboratory projects and presentations also will be assigned. The final grade will be determined by the total points earned on laboratory write-ups, class presentation, and examinations. A total of 370 points are possible and will be allocated as follows:

- Lab write-ups = 120 points (20 points each)
- Class Presentation = 50 points
- Midterm Exam = 100 points
- Final exam = 100 points

Letter grades will be assigned according to the following percentage criteria:

- 100-90 = A
- 89-80 = B
- 79-70 = C
- 69-60 = D
- 59-50 = F

Course Readings

Readings will be selected from journals and the following handbook available as a pdf on Angel:

Banerjee, S. (2006). The Compression Handbook, Third Edition. Minnesota: Starkey Printing Services

The following textbook is a recommended reference book for the course:

Taylor, B, and Mueller, H.G. (2011). Fitting and Dispensing Hearing Aids. New York: Plural Publishing.

Tentative Lecture/Exam Schedule

<u>Date</u>	<u>Topic</u>
Aug 22	Introduction/Review of syllabus, labs, and presentation format Review of hearing aid candidacy, styles, technology
29	Sensorineural hearing loss and compression Lab 1
Sep 5	Labor Day - No class

	12	Directional microphones
	19	Noise Reduction Lab 2
	26	Feedback management Student presentation – Krysta Beaver
Oct	3	HA modifications, earmold venting, tubing, occlusion issues Open fit/Receiver-in-the-ear hearing aids
	10	Fall Break – No class
	17	Midterm Exam
	24	Verification techniques (i.e., Real Ear Measures) Student Presentation – Kelli Downey Lab 3
	31	Cerumen management Lab 4 with Teresa Kennalley, AuD
Nov	7	Pediatric amplification Student presentation – Casey Gorrell Lab 5
	14	Open-canal fittings Lab 6
	21	Fine-tuning techniques, Validation measures Student presentation – Sam Johnson
	28	Manufacturer presentation – Widex Hearing Aids
Dec	5	Manufacturer presentation – GNResound Final review
	12	Final Exam

Learning assistance, academic performance enhancement, and psychological services at KUMC are free, confidential, and available at Student Counseling & Educational Support Services by calling 913-588-6580 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 (913-588-7813, TDD 913-588-7963) as soon as possible.