

Audiology and Teachers of the Deaf and Hard of Hearing
Com D 4770/6770

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Course Description

The general purpose of this course is to focus on the field of audiology and how information from this discipline relates to children who are deaf or hard of hearing.

The following objectives reflect CED standards 1.2.3, 1.2.5, 1.2.8 and 1.2.10.

Major Objectives I: The basic objective of a portion of this course is to introduce the student of deaf education to audiometric principles that will assist and fortify the student in the practice of educating students who are deaf and hard of hearing. Students should be able to:

- Understand the principles of sound and how they apply to teachers.
- Describe various types of hearing loss
- Explain the basic hearing tests and their purposes
- Correlate basic hearing disorders with anatomy and physiology and tests of hearing loss
- Identify the different components of a hearing aid and know their functions, and be able to identify the different hearing aid types
- Administer a hearing screening test using a portable audiometer

Major Objective II: This portion of the course focuses on the practical application of audiometrics and related issues in the home and classroom setting. Students will be able to:

- Understand the difference between FM and Infrared systems
- Understand the importance of room acoustics and how to treat classrooms
- Analyze the advantages and disadvantages of using cochlear implants
- Develop in-service programs for families, teachers, and administrators

Resources:

Course notes

American Psychological Association. (2002). *Publication manual of the American Psychological Association* (5th ed.). Washington, DC.

Student Evaluation:

Two examination worth 100 points each.

Student research paper worth 100 points

Demonstration of competency in troubleshooting hearing aids (100 points)

Student Research Paper

This research paper needs to be between 10 and 12 pages for undergraduates, or 15 to 16 pages for graduate students. The paper is to describe the relationship of audiology to the deaf and hard of hearing or other related topics approved by the instructor. The paper will be judged using the departmental rating form. If the paper is turned in late you will lose 5 points for each day turned in after the deadline (to be announced).

Grades:

Grades will be based on performance on assignments, exams, and practical demonstration of troubleshooting skills. The average for all assignment will be calculated and the falling scale will be used in assigning grades:

A 96-100%

A- 90-95%

B+ 86-89%

B 83-85%

B- 80-82%

C+ 76-79%

C 73-75%

C- 70-72%

Lecture Schedule

Audiology and Teachers of the Deaf
Com D 4770/6770
T., Th., 9:00 to 10:15
Fall Semester, 2007

- Aug 28 T Introduction, Sound and Noise
- Aug 30 Th Intensity and dB
- Sept 4 T Sound Propagation and Standing Waves
- Sept 6 Th Tube Resonance, Fidelity
- Sept 11 T Dopler Effects and Transducers
- Sept 13 Th Pure Tone Audiometry
- Sept 18 T Pure Tone Audiometry
- Sept 20 Th Speech Audiometry
- Sept 25 T Immittance Audiometry
- Sept 27 Th Otoacoustic emissions/ Case Studies
- Oct 2 T Case Studies
- Oct 4 Th First Examination
- Oct 9 T Auditory Management
- Oct 11 Th Amplification Systems
- Oct 16 T Cochlear Implants
- Oct 18 Th Cochlear Implants - Video
- Oct 23 T Central Auditory Processing
- Oct 25 Th **No Class – Visit the Idaho School for the Deaf**
- Oct 30 T Troubleshooting Hearing Aids (half the class)

Nov 1 Th Troubleshooting Hearing Aids (half the class)

Nov 6 T Bringing Change to Education

Nov 8 Th Bringing Change to Education

Nov 13 T Speechreading Training

Nov 15 Th Coordination of Services

Nov 20 T Aural Rehabilitation

Nov 21 – 23 Thanksgiving Holiday

Nov 27 T Communication Lab

Nov 29 Th Facilitating Parent Involvement

Dec 4 T Case Studies

Dec 6 Th Case Studies

Dec 13 Th Final Examination 9:30-11:20 a.m.