MURRAY STATE UNIVERSITY  
Course Syllabus Outline

DEPARTMENT: Wellness and Therapeutic Sciences  
Division of Communication Disorders

COURSE NUMBER: CDI 405

CREDIT HOURS: 3

I. COURSE TITLE: AUDIOLOGY

II. CATALOG DESCRIPTION: An introduction to the field of audiology. Specific emphasis on basic testing procedures and causes and types of hearing loss. Clinical observation and practice are required.

III. PURPOSE: This course is designed to provide the student with an understanding of hearing loss (type and etiology), diagnostic audiology methods, and audiogram interpretation.

IV. COURSE OBJECTIVES:
Upon completion of the course, the student will be able to:
A. Demonstrate knowledge of anatomy and physiology of the hearing mechanism. [8]
B. Demonstrate knowledge of pathologies of the ear and concurring hearing loss. [8]
C. Demonstrate knowledge of current audiometric technology and associated assessments, including pure tone audiometry, speech audiometry, immittance measures, site-of-lesion tests, and electrophysiologic measures of auditory function. [8]
D. Distinguish patterns of diagnostic findings associated with conductive, sensorineural, and mixed hearing losses, as well as pseudohypacusis. [8]
E. Identify audiological procedures for assessing diverse client populations of differing ages and abilities. [1]
F. Conduct and report results of basic hearing and immittance screenings and threshold measurements under supervision. [3,4]

V. CONTENT OUTLINE
Review of anatomy/physiology
Review of basic acoustics
Pure tone air conduction audiometry
Pure tone bone conduction testing
Types of hearing loss
Tympanometry
Speech audiometry
Masking
Pediatric testing

Screening procedures
Pseudohypacusis
Etiology and diagnostic findings
Case history information
Special procedures
Site-of-lesion tests
Electrophysiologic measures
CAPD
VI. **INSTRUCTIONAL ACTIVITIES:** Acquisition and integration of auditory physiology and current audiology trends will be through lecture, discussion, small group problem solving, written assignments and internet assignments. Students will integrate and refine knowledge through case studies, observations and use of current audiometric technology.

VII. **FIELD AND CLINICAL EXPERIENCES:** Each student is to observe at least one diagnostic audiology evaluation. Students must schedule this observation in advance by signing the observation list located in Bonnie Adams’ office (SE 125). No more than 2 students may sign up for a single appointment without prior approval of audiologist. Audiology observation forms will be provided for recording observations.

Each student is to have his/her hearing tested by a classmate.

Students are required to conduct a minimum of five hearing tests (one will include speech testing and one will include masking), four sets of tympanograms, and four otoscopic examinations during the semester. Sign-up sheets for sound booth time will be available outside SE 108. Audiograms are located in the back of the Audiogram Workbook available at Copy Plus. E-A-R earplugs are available for simulating hearing loss.

VIII. **RESOURCES:** MSU Diagnostic and Remediation Center and the audiometric and immittance equipment. Books and journals in audiology suite (SED 108) are available for check-out. Audiometer simulation program.

IX. **GRADING PROCEDURES:** Performance events will include written examinations, a competency examination in performing a basic hearing test, clinical assignments, and workbook assignments. The competency examination will be pass-fail and will be scheduled and administered on an individual basis. Students must complete both written and performance criteria to receive credit for the course. Given satisfactory completion of the competency examination and clinical assignments, the student’s grade will be based on written examination scores and workbook assignments using the following grading scale.

\[ A=90\%-100\% , \ B=80-89\% , \ C=70-79\% , \ D=60-69\% , \ E=0-59\% \]

X. **ATTENDANCE POLICY:** This course adheres to the policy published in the MSU Undergraduate Bulletin.

XI. **ACADEMIC HONESTY POLICY:** Students found cheating on examinations or clinical assignments will be reported to the Academic Affairs Office and a zero will be given for that assignment/test.

XII. **TEXT AND REFERENCES:**
XIII. **PREREQUISITES:** CDI 310 or consent of instructor.

References
Audiology Services in the Schools, ASHA, May 1983, p. 53-60.
Guidelines for Audiologic Screening of Newborn Infants who are At Risk for Hearing Impairment, ASHA, March 1989, p. 89-92.