

**CSD 3020**  
**Audiology I**  
**3 Semester Hours**

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**College of Education**  
**Valdosta State University**  
**Department of Communication Sciences and Disorders**  
**Conceptual Framework: Guiding Principles**  
(adapted from the Georgia Systemic Teacher Education Program Accomplished Teacher Framework)

**Dispositions Principle:** Productive dispositions positively affect learners, professional growth, and the learning environment.

**Equity Principle:** All learners deserve high expectations and support.

**Process Principle:** Learning is a life-long process of development and growth.

**Ownership Principle:** Professionals are committed to, and assume responsibility for, the future of their disciplines.

**Support Principle:** Successful engagement in the process of learning requires collaboration among multiple partners.

**Impact Principle:** Effective practice yields evidence of learning.

**Technology Principle:** Technology facilitates teaching, learning, community building, and resource acquisition.

**Standards Principle:** Evidence-based standards systematically guide professional preparation and development.

## REQUIRED TEXTBOOK

Martin, F.N. & Clark, J.G. (2012). *Introduction to Audiology* (11th Ed.), Allyn & Bacon/Pearson

## COURSE DESCRIPTION

An introduction to basic auditory tests, anatomy and physiology of the hearing mechanism, and disorders of hearing. Emphasis is placed on audiometric measurement and interpretation.

## COLLEGE OF EDUCATION CONCEPTUAL FRAMEWORK STANDARDS (CFS)

**STANDARD III-B:** The student must demonstrate knowledge of basic human communication and swallowing processes, including their biological, neurological, acoustic, psychological, developmental and linguistic cultural bases.

**STANDARD III-C:** The student must demonstrate knowledge of the nature of speech, language, hearing, and communication disorders and differences and swallowing disorders, including etiologies, characteristics, anatomical/physiological, acoustic, psychological, developmental, and linguistic and cultural correlates.

**STANDARD III-D:** The student must possess knowledge of the principles and methods of prevention, assessment, and intervention for people with communication and swallowing disorders, including consideration of anatomical/physiological, psychological, developmental, and linguistic and cultural correlates of the disorders.

**STANDARD III-E:** The student must demonstrate knowledge of standards of ethical conduct.

**STANDARD III G:** The student must demonstrate knowledge of contemporary professional issues.

**STANDARD III-H:** The applicant must demonstrate knowledge about certification, specialty recognition, licensure, and other relevant professional credentials.

## COURSE OBJECTIVES (CO):

1. Student will demonstrate an understanding of historical development of and current issues in the field of audiology. (Standard IIIE, IIIG, and IIIH)
2. Student will demonstrate an understanding of the stimuli used in audiometry and the terminology associated with hearing measurement and human perception of acoustic stimuli.(Standard IIIB and IIID)
3. Student will demonstrate an understanding of basic audiometer calibration techniques and associated concepts and terminology. (Standard IIIB)
4. Student will demonstrate an understanding of the severity ranges, types and causes of hearing loss.(Standard IIIC and IIID)
5. Student will demonstrate an understanding and skill in the use of basic audiometric test procedures, tympanometric and pure tone screening procedures. (Standard IIID)

6. Student will demonstrate skills in interpreting audiologic test battery results.(Standard IIID)

### COURSE ACTIVITIES / ASSIGNMENTS / REQUIREMENTS

#### **Outside class activities:**

A. Students will complete a research project/presentation on a hearing disorder which will be assigned. Students will work in pairs. Grading is based on 3-5 minute presentation and class handout (one page). You may use Power Point for the presentation. Both students must equally share in the presentation responsibilities. (CO#4)

B. Observations: **1 hour required.** (CO# 5)

Students will observe and provide a written summary (format will be distributed) of one of the following activities:

1. Hearing Screenings- 1 hour
2. Hearing Evaluation– 1 session

C. Computer Labs (NON-GRADED)

Students will complete exercises using internet/software to review acoustics, anatomy/physiology and disorders of the hearing mechanism and hearing test procedures. **Due Date(s): anatomy & disorders- prior to exam 1; hearing tests- prior to exam 3.** (CO# 2, 4, 5)

#### **In-class Lab Activities – (Some are GRADED-see below)**

(CO# 3, 4, 5, 6)

Students will participate in and complete the following activities:

- A. Perform and interpret hearing screenings (graded).
- B. Perform and interpret pure tone AC and BC threshold testing.
- C. Perform and interpret speech audiometry.
- D. Perform and interpret otoscopy and tympanometry (graded).
- E. Interpret case studies.

### Course Sequence Outline

Introduction and Overview (Ch. 1 & 2)

Anatomy and Physiology of the Hearing Mechanism (Ch. 9-12)

Hearing Disorders (Ch. 9-12)

EXAM 1

Introduction to Acoustics (Ch.3)

Pure Tone Air Conduction and Bone Conduction Threshold Testing (Ch. 4)

Speech Audiometry (Ch. 5)

Masking (Ch. 6)

EXAM 2

Overview and Basic Principles of Acoustic Immittance Measurements/  
Tympanometry in Clinical Audiology (Ch. 7)

Hearing Screening Procedures for School-age and Adults (Ch. 8)  
Pediatric Audiology (Ch. 8)  
EXAM 3

Audiologic Test Battery Interpretation (Case Studies)  
Intro to Management of Hearing Loss- Part IV of text (Ch. 14 & 15)

**COMPREHENSIVE FINAL EXAM:** Friday, May 4<sup>th</sup> from 12:30 to 2:30

### COURSE EVALUATION

There will be a minimum of three tests and a final. Exam material will include lectures, any videos, guest speakers and the text. Each student is expected to have read the text in preparation for each lecture. Lecture material will supplement the text. The final exam will be comprehensive. Additionally, the projects and lab grades will be averaged in with tests and exam grades to establish a final grade. Grading Scale: A = 90-100, B = 80-89, C = 70-79, D = 60-69, F = 59 or less

### POLICY STATEMENT ON PLAGIARISM AND CHEATING

Below is information directly quoted from Academic Honesty Policies and Procedures:

Academic integrity is the responsibility of all VSU faculty and students. Faculty members should promote academic integrity by including clear instruction on the components of academic integrity and clearly defining the penalties for cheating and plagiarism in their course syllabi. Students are responsible for knowing and abiding by the Academic Integrity Policy as set forth in the Student Code of Conduct and the faculty members' syllabi. All students are expected to do their own work and to uphold a high standard of academic ethics.

The full text of Academic Honesty Policies and Procedures is available in the on the Academic Affairs website (<http://www.valdosta.edu/academic/AcademicHonestyatVSU.shtml>).

The consequences for acts of academic dishonesty in the Dewar College of Education are:

**FIRST OFFENSE:** The faculty member will administer an academic response (e.g. resubmit / retake assignment, failure of the assignment, failure of the course).

1. The faculty member will complete a Level Two Dewar College of Education Concern form (<http://www.valdosta.edu/coe/studentsinfo.shtml>).
2. The faculty member will complete a Valdosta State University Report of Academic Dishonesty (<http://www.valdosta.edu/academic/AcademicHonestyatVSU.shtml>).

**SECOND OFFENSE:** The faculty member will administer an academic response (e.g. resubmit / retake assignment, failure of the assignment, failure of the course).

The faculty member will complete a Level Two Dewar College of Education Concern form (<http://www.valdosta.edu/coe/studentsinfo.shtml>). According to the Dewar College of Education Concern Form Policy, "a second level two concern form will result in the student

being dismissed from his/her program of study. This dismissal will result in an automatic review by the COE Undergraduate Policies Committee.”

1. The faculty member will complete a Valdosta State University Report of Academic Dishonesty (<http://www.valdosta.edu/academic/AcademicHonestyatVSU.shtml>). According to the Academic Honesty Policies and Procedures document, “after a second (or subsequent) Report of Academic Dishonesty has been submitted to the Student Conduct Office in the Dean of Students Office, official charges will be drawn up and the disciplinary matter will be referred to the Valdosta State University Judicial Committee.”

### SOI STATEMENT

At the end of the term, all students will be expected to complete an online Student Opinion of Instruction survey (SOI) that will be available on BANNER. Students will receive an email notification through their VSU email address when the SOI is available (generally at least one week before the end of the term). SOI responses are anonymous, and instructors will be able to view only a summary of all responses two weeks after they have submitted final grades. While instructors will not be able to view individual responses or to access any of the responses until after final grade submission, they will be able to see which students have or have not completed their SOIs, and student compliance may be considered in the determination of the final course grade. These compliance and non-compliance reports will not be available once instructors are able to access the results. Complete information about the SOIs, including how to access the survey and a timetable for this term is available at <http://www.valdosta.edu/academic/OnlineSOIPilotProject.shtml>.

### ATTENDANCE POLICY

The university 20% absence policy regarding attendance will be strictly adhered to during the course.

### LATE WITHDRAWAL

For late withdrawal for medical or hardship situations after midterm, the process is available at <http://www.valdosta.edu/academic/WithdrawalPolicy.shtml>

### ACCESS OFFICE

Students requesting classroom accommodations or modifications due to a documented disability must contact the Access Office for Students with Disabilities located in Farber Hall. The phone numbers are 245-2498 (V/VP) and 219-1348 (TTY).

### INSTRUCTOR

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Office Hours: See Posted Schedule