

SAN JOSE STATE UNIVERSITY  
COLLEGE OF EDUCATION  
COMMUNICATIVE DISORDERS AND SCIENCES DEPARTMENT

EDAU 170  
AUDIOLOGY 1  
SPRING 2014  
T OR TH 9 – 11:45

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Office Hours: to be announced

Mission of the College of Education, SJSU:

The mission...is to prepare educators who have the knowledge, skills, dispositions and ethics that ensure equity and excellence for all students in a culturally diverse, technologically complex, global community.

Mission of the Department of Communicative Disorders and Sciences, SJSU:

The mission of CD&S is to provide a high quality program for speech-language pathologists to meet the communicative needs of our increasingly diverse multilingual/multicultural population. The program follows an academic and clinical curriculum, based on a sound theoretical framework and research findings that promote competent practitioners who participate in lifelong learning experiences. The program is enhanced through faculty, academic, and clinical expertise, trans-disciplinary and family collaboration and technological advancements in assessment and intervention.

COURSE DESCRIPTION:

Topics include: theory of diagnostic audiological evaluation; calibration of audiometers; screening versus diagnosis; differential diagnosis of conductive versus sensorineural pathology. Procedures for obtaining pure-tone thresholds, speech recognition threshold, word recognition performance, acoustic immittance measurements, and otoacoustic emissions will be studied. The course culminates with interpretation of audiometric results. Prerequisites: EDAU 115 or permission of instructor.

KNOWLEDGE BASE:

ASHA recommended guidelines for manual pure-tone threshold audiometry; ASHA recommended procedures for Speech Recognition Threshold; ANSI standards for Calibration of Audiometers; ASHA guidelines for screening for middle-ear disorders.

CALIFORNIA COMMISSION ON TEACHER CREDENTIALING STANDARDS  
CLINICAL REHABILITATIVE SERVICES CREDENTIAL IN SPEECH AND  
LANGUAGE WITH SPECIAL CLASS AUTHORIZATION

Standard 22 Speech and Language Disorders.

Each candidate demonstrates understanding of speech, language and hearing disorders.

The candidate demonstrates understanding of speech, language, and hearing disorders, including but not limited to disorders of language, articulation, fluency, voice, and hearing.

### Standard 23 Evaluation of Speech and Language Disorders

Each candidate demonstrates proficiency in screening for and evaluation of speech and language disorders and in screening for hearing disorders.

The candidate exhibits knowledge of hearing screening procedures.

### Standard 24 Management of Speech and Language Disorders

Each candidate demonstrates proficiency in the management of speech, language, and hearing disorders.

The candidate demonstrates knowledge of management procedures, including remediation principles used in habilitation and rehabilitation for children and adults with various disorders of communication in their primary languages.

#### TEXTS:

[Audiology Primer](#), VAMC, Mountain Home, Tennessee – from Richard H. Wilson, Ph.D.  
Required. Note: .pdf version is posted on D2L.

#### STUDENT LEARNING OBJECTIVES:

1. Students will perform and interpret screening and diagnostic tests for the purpose of evaluating hearing loss, including pure tone thresholds, speech recognition thresholds, word recognition performance, tympanometry, and acoustic reflexes.
2. Students will make appropriate recommendations for medical or audiological follow up based upon audiometric test results.
3. Students will understand the pathology underlying common hearing losses and will be able to differentiate pathology through audiometric interpretation. This objective will be evaluated by performance on two examinations.
4. Students will understand the scope of practice for speech-language pathologists and audiologists as regards to screening for, and diagnosing, hearing loss. Students will also understand the ASHA recommended guidelines for screening for hearing loss and middle-ear pathology.
5. All student learning objectives will be evaluated using three laboratory assignments and two written examinations during the course of the semester, as described in the course requirements.

#### COURSE REQUIREMENTS:

1. Complete all readings as assigned.
2. Participate in class discussions.
3. Completion of three laboratory assignments:
  - A. Lab 1. Pure-tone audiograms: Using the portable audiometers, obtain five audiograms from friends, family, or classmates. Specifics of the assignment will be given during Week 3.
  - B. Lab 2. Speech audiometry: Using the clinic audiometer, work in groups of three to obtain pure-tones and speech tests. Specifics of the assignment will be given during Week 7.
  - C. Lab 3. Tympanometry and Otoscopy: Using the portable tympanometer and clinic otoscopes, obtain two tympanograms from classmates. Specifics of the assignment will be given during Week 14.
1. Completion of two written exams. Make up exams are not given.

## GRADING POLICY:

Lab 1: 10 points  
Lab 2: 10 points  
Lab 3: 10 points  
Exam 1: 50 points  
Exam 2: 50 points

Grades will be assigned on a statistical distribution of total points.

## GRIEVANCE PROCEDURES:

Information regarding grievance procedures is available in SH 115.

## ACADEMIC INTEGRITY:

“Your own commitment to learning, as evidenced by your enrollment at SJSU, and the University’s Academic Integrity Policy requires you to be honest in your academic course work. Faculty are required to report all infractions to the Office of Judicial Affairs. The policy on [academic integrity](http://www.sjsu.edu) can be found at [www.sjsu.edu](http://www.sjsu.edu).”

## AMERICANS WITH DISABILITIES ACT:

“If you need course adaptations or accommodations because of a disability, or if you need special arrangements in case the building must be evacuated, please make an appointment with me as soon as possible, or see me during office hours. Presidential Directive 97-03 requires that students with disabilities register with DRC to establish a record of their disability.”

## COURSE CALENDAR:

Topic	Reading(Wilson)
Week 1: Introduction; Audiological Evaluation; Calibration	Pages 1 – 8.
Week 2: Case History	
Week 3: Pure-tone Audiometrics	
Week 4: Bone conduction and masking	
Week 5: Interpretation of Audiograms	
Week 6: Ear Pathologies	
Week 7: Exam 1	
Week 8: Speech Recognition Threshold	Pages 8 – 12.
Week 9: Word Recognition	
Week 10: Lab 2 demonstration	
Week 11: Tympanometry	Pages 14 – 18.
Week 12: Acoustic Reflexes	Pages 18 – 19.
Week 13: Otoacoustic Emissions	Pages 19 - 22.
Week 14: Case Studies	Pages 42 – 65.
Week 15: Summary	

Exam 2: Final Exam Week (Date TBD)