

# CSAD 130: Audiology and Hearing Testing, Sections 3 & 4

## Spring 2019

Folsom Hall 1063

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### Course Description:

**CSAD 130. Audiology and Hearing Testing.** Introduction to audiology; anatomy and physiology of the hearing mechanism; pathologies of the ear; basic acoustics of sound and its relation to hearing and speech; school hearing screening; hearing conversation; audiometric interpretation and its relationship to speech language and learning disorders. 3 units

### Specific Student Learning Outcomes:

1. The student will be able to describe the basic structure of sound and its propagation. (KASA IV – A &B)
2. The student will be able to describe the process of the normal development of hearing.
3. The student will be able to accurately identify major anatomical structures in the outer, middle, inner ear, and central auditory pathways.
4. The student will be able to describe the physiological processes involved in hearing.
5. The student will have an understanding of pathologies of the outer, middle, inner ear, and auditory pathways and how they affect hearing.
6. The student will have a basic understanding of how hearing loss can affect speech and learning. (KASA IV – C&D)
7. The student will be able to describe the basic procedures used to assess hearing. (KASA IV-D)
8. The student will be able to describe the necessary components of a hearing aid.
9. The student will be able to describe and identify an appropriate school hearing screening program.

### A. Required Pre-Major Courses (12 units)

- (3) A course in Human Development such as CHDV 30
- (3) A course in Statistics such as STAT 1, SWRK 110, PSYC 101, or SOC 101
- (3) A course in Introduction to Psychology such as PSYC 2
- (3) American Sign Language such as DEAF 51
- (3) Physics of Sound and Phonetics CSAD 110
- (3) Anatomy and Physiology of the Speech Mechanism CSAD 111

### Course Materials:

#### Required Text:

Introduction to Audiology, 13<sup>th</sup> Edition, Frederick Martin and John Clark (Paperback or ebook)

#### Required Software:

Microsoft Office Suite 2007

- WORD
- EXCEL
- POWER POINT

Adobe Reader

CANVAS access

Additional information from the following texts will be provided to students in lecture or printed material:

References:

Anatomy and Physiology of Hearing for Audiologists: Clark & Ohlemiller.  
 Audiology the Fundamentals: 3<sup>rd</sup> Edition; Bess & Humes  
 Essentials of Audiology: Gelfand, 2<sup>nd</sup> edition  
 Audiologists Desk Reference: Hall and Mueller, Volume I  
 Diseases of the Ear: A Pocket Atlas: Hawke and McCombe  
 Clinical Otology: Hughes and Pensak, Second Edition  
 Handbook of Clinical Audiology, 5<sup>th</sup> edition: Jack Katz, Ed.  
 Introduction to Audiology: A review manual: Martin and Clark, 5<sup>th</sup> edition.  
 Hearing Disorders: Northern and Downs, 5<sup>th</sup> Edition  
 Lectures by Robert Tice PhD, CSUS 1998-2003  
 Speech and Hearing Science: Zemlin, 4<sup>th</sup> Edition

**CANVAS**

Access to CANVAS is a requirement of this course. Campus computers are available for student use in many locations. This course is posted on CANVAS. All lecture material and required readings not in the text book will be available only on CANVAS. I do not recommend printing the lectures until the day before class as the content could possibly change. Grades and statistics for the tests will be posted on CANVAS. Please forward interesting links to me as I will post them for the benefit of the entire class. Required readings will be posted in WORD or PDF format on CANVAS. All submissions must be in WORD or PDF format. Mac PAGES submissions will not be accepted.

**Midterms and Grades:**

**Midterms:** There will be 4 midterms given throughout the semester. The midterms will include a combination of multiple choice questions, short answer and essay type questions. Each midterm will be worth 100 points. Each midterm will cover the topics of each section. This class is cumulative. You will need to have a good understanding of the material to continue to the next section. All previous subject matter may be tested during these exams. All midterms are required. (400) There are NO MAKE-UPS.

**Quizzes:** There will be 8 short quizzes. The quizzes will be given each class period. There are NO MAKE-UPS. The quizzes will include areas covered in the previous class period and the current readings. Each quiz will be worth 10 points. (80)

**Discussions:** Student Meet Up! In the discussion section of canvas please introduce yourself. You will receive 10 points for this. After the initial post please continue to post, ask questions of each other, and form study groups. This is present for you to be able to communicate with each other outside of class. (20)

**Assignments:** There are 6 assignments, which are worth 50 points each. Use the Assignments section of CANVAS to access and submit the assignments. (300)

**Project:** The project consists of performing a hearing evaluation on another student. You will be provided a schedule when the audio suite will be available. This will be work completed outside of class. You will need to complete and audiogram and a written report each worth 50 points for a total of 100 point for the project. This is due the night of the final exam. (100)

**Readings:** The assigned readings are not optional you will be tested on the material. The material will only be covered briefly in class. All readings will be from our text or posted on web CT. This course requires extensive reading. Be prepared and read all reading assignments prior to class.

The Final Grade will be based on a percentage of total points (900) and will be assigned as follows:

A	100 – 95.0	A-	94.9 – 90.0	B+	89.9 - 87.0	B	86.9 – 83.0
B-	82.9 – 80.0	C+	79.9 – 77.0	C	76.9 – 73.0	C-	72.9 – 70.0
D+	69.9 – 67.0	D	66.9 – 63.0	D-	62.9 - 60.0	F	59.9 or below

**Remediation:** *If you receive a midterm grade lower than a C-, you are required to sign up for an office hour to discuss your exam. If you cannot come during office hours, I will set up a special appointment time with you. I will analyze your exam with you and identify areas where you have had difficulty with specific course learning outcomes/competencies. I will give you specific strategies and suggestions that will help you establish competence and knowledge in these areas. You will need to follow through with these suggestions in order to receive a complete grade in the class.*

### **Make-up Policy**

There are no make up quizzes or exams. Your attendance is required at every class period to take these quizzes and exams. The syllabus clearly states necessary dates. Your lowest quiz will be dropped. This is provided to you to allow unforeseeable events preventing you from taking a quiz.

**Policy on making up exams and quizzes:** No make-up exams are given unless there is a documented medical emergency with written proof. Being late for an exam or quiz will not entitle you to extra time. Please make sure you arrange your schedules to be here on time for the exams. If you miss a short quiz because you are late for class, or absent you will not be given another to make up.

**Policy on attendance:** Attendance to each class period is not mandatory. But there are no make up quizzes or exams. The information reviewed in class may not be found anywhere else. So it is strongly advised that you attend every class period.

**Group Discussions:** If you need to speak to your classmate on an issue not pertaining to the lecture please leave the room. If it pertains to the class please ask me or address the entire class. Please keep your behavior in class professional.

**Cell Phone Policy:** Please keep your cell phones turned off during class. If you absolutely need it to be on please keep it on "vibrate" mode and sit near the exit. If you need to take a call please leave the classroom silently and come back when you are finished. You do not need to ask permission to leave or enter the class.

**Drop/Add:** Students may drop and add classes only according to University Policy. Neither the department nor I are able to add or drop students from the course. You must go through the online system to add or drop. Students must fill out appropriate forms and meet University deadlines to drop or add classes.

**Special Needs/Accommodations:** Any student who does not understand or accept the contents or terms of this syllabus or has a disability or condition that compromises his or her ability to complete course requirements must notify the instructor in writing within one week of receiving this syllabus. They must then seek assistance from Disabled Students Services and/or the Learning Center.

### **Equal Access:**

California State University-Sacramento, Department of Communication Sciences and Disorders, seeks to provide equal access to its programs, services, and activities for people with disabilities. If you have a documented disability and verification from the Office of Services to Students with Disabilities (SSWD), and wish to discuss academic accommodations, please contact your instructor as soon as possible. It is the student's responsibility to provide documentation of disability to SSWD and meet with a SSWD counselor to request special accommodation before classes start. **Sacramento State Services to Students with Disabilities (SSWD)** offers a wide range of support services and accommodations for students in order to ensure students with disabilities have equal access and opportunity to pursue their educational goals. Working collaboratively with students, faculty, staff and administrators, SSWD provides consultation and serves as the information resource on disability related issues to the campus community. SSWD is located in Lassen Hall 1008 and can be contacted by phone at (916) 278-6955 (Voice) or (916) 278-7239 (TDD only) or via email at [sswd@csus.edu](mailto:sswd@csus.edu).

**University policy on plagiarism:** Plagiarism is the use of distinctive ideas or works belonging to another person without providing adequate acknowledgement of that person's contribution. Regardless of the means of appropriation, incorporating another's work into one's own requires adequate identification and acknowledgement. Plagiarism is doubly unethical because it deprives the author of rightful credit and gives credit to someone who has not earned it. Acknowledgement is not necessary when the material used is common knowledge. When the source is not noted, the following would constitute plagiarism:

1. Word-for-word copying.
2. The mosaic (to intersperse a few words of one's own here and there while, in essence, copying another's work).
3. The paraphrase (the rewriting of another's work, yet still using the fundamental idea or theory).
4. Fabrication (inventing or counterfeiting sources).
5. Ghost-written material (submitting another's effort as one's own).

It is also plagiarism to neglect quotation marks on material that is otherwise acknowledged. Plagiarism and acts associated with it are cause for disciplinary and/or legal action.

**Plagiarism is a serious offence and at CSUS it is your responsibility to familiarize yourself with the university policy which may be found at: <http://www.csus.edu/admbus/umanual/UMP14150.htm>**

## **Learning Outcomes Competencies:**

### **CSAD 130: Audiology**

**This course has been designed to be in direct support of the following American Speech-Language Hearing Association (ASHA) Knowledge and Skills Acquisition for certification in Speech-Language Pathology:**

Mastery of each student learning outcome listed below is indicated by a grade of C (73-76%) or better on each component of the corresponding measures listed in the table. Students are required to track their progress towards meeting each learning outcome and must make an appointment with the instructor for any grade equal to or less than a C. The instructor will suggest strategies to help you establish competence and knowledge in these areas.

Students should track their progress towards meeting each learning outcome by listing their grades on the table below over the course of the semester.

### **CSAD 130 Audiology and Hearing Testing**

Standard IV-C: Speech, Language, Hearing, Communication, and Swallowing Disorders and Differences

- The student will demonstrate the ability to analyze, synthesize and evaluate knowledge re: hearing disorders (including the impact on speech and language including the etiologies, characteristics, and anatomical physiological, acoustic, psychological, developmental, linguistic, and cultural correlates.)

Standard IV-D: Prevention, Assessment, and Intervention

- The student will demonstrate the ability to analyze, synthesize, and evaluate knowledge re: the principles and methods of prevention, screening, and intervention regarding hearing, including the impact on speech and language.

Standard IV-B: Basic Human Communication Processes

- The student will demonstrate the ability to analyze, synthesize and evaluate knowledge re: biological bases of human communication.

<u>Course Learning Outcome</u>	<u>Components Indicating Competence</u>	<u>Grades Received</u>
1	Midterm 1, Assignment 1	Midterm 1 _____ Assignment 1 _____
2-6	Quiz 1-5, Quiz 10, Assignment 2, Midterm 1&2	Quiz 1 _____ Quiz 2 _____ Quiz 3 _____ Quiz 4 _____ Quiz 5 _____ Midterm 2 _____ Assignment 2 _____
7-9	Quiz 7-9, Midterm 3&4, Assignments 3-5	Quiz 7 _____ Quiz 8 _____ Midterm 3 _____ Midterm 4 _____ Assignments 3 _____ Assignments 4 _____ Assignments 5 _____