CSAD 130: Audiology and Hearing Testing

Spring 2017

Section 1: MW – 6-7:15p
Section 2: MW – 7:30-8:45p
Section 3: TTH - 530-6:45 p
Section 4: TTH – 7-8:15

Instructor: Charles Sanders AuD, CCC-A, F-AAA Phone: 278-6601
Office Hours: Tuesday & Thursday 8:15-9:30 pm By Appointment
Office: Shasta Hall, Audio Suite Email: csanders@csus.edu

Course Description:

SPHP 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. Units: 3.0

Specific Student Learning Outcomes:

1. The student will be able to describe the basic structure of sound and its propagation. (KASA III – 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 III – C & D)
7. The student will be able to describe the basic procedures used to assess hearing.
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 (15 units)

(3) A course in Human Development such as CHDV 30
(3) A course in Introduction to Statistics such as STAT 1
(3) A course in Introduction to Psychology such as PSYC 2
(3) A course in biological sciences such as general human anatomy, physiology, biology, botany, zoology, microbiology, genetics, marine biology, etc., such as BIO 7, BIO 10, BIO 20, BIO 22, BIO 25 or BIO 26
A course in physical sciences such as physics, chemistry, astronomy, physical geography, geology, meteorology, marine environment, matter and energy, etc., such as PHYS 1, PHYS 5A, PHYS 10, PHYS 11A, CHEM 1A, CHEM 6A, ASTR 4B, GEOG 1, GEOL 8, GEOL 10, or GEOL 130

Course Materials:

Required Text:
Introduction to Audiology, 12th Edition, Frederick Martin and John Clark (Paperback or ebook)
Companion Website for the 11th Edition:
http://wps.prenhall.com/chet_martin_audiology_11/

Required Software:
Microsoft Office Suite 2007
- WORD
- EXCEL
- POWER POINT
Adobe Reader
WebCT Access/Backwards compatibility pack for Microsoft Office 2007
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: 3rd Edition; Bess & Humes
- Essentials of Audiology: Gelfand, 2nd 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
- Hearing Disorders: Northern and Downs, 5th Edition
- Lectures by Robert Tice PhD, CSUS 1998-2003
- Speech and Hearing Science: Zemlin, 4th Edition

Sac CT

Access to Sac CT 9.1 is a requirement of this course. Campus computers are available for student use in many locations. This course is posted on Sac CT 9.1. All lecture material and required readings not in the text book will be available only on Sac CT 9.1. 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 Sac CT 9.1. 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 Sac CT 9.1.

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 maybe 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)

Assignments: There are 5 assignments, which are worth 50 points each. Use the Assignments section of WebCT to access and submit the assignments. (250)

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)

Interactive Exercises: Most weeks you will see interactive exercises on the schedule. Each week you should complete the matching exercise, the outline, the multiple-choice, and the cross word puzzle. You will follow along with the interactive website. These exercises are presented to you as preparation for the quizzes and midterms. There will be items on the assessments from these that will not in the lectures. These are voluntary, but if you fail to complete them you will not be able to pass the Midterms.

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 (830-10=820) and will be assigned as follows:
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 according to University Policy. 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.

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).

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<tr>
<th>Grade</th>
<th>Percentage</th>
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<td>A</td>
<td>100 – 95.0</td>
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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](http://www.csus.edu/admbus/umanual/UMP14150.htm)

**Learning Outcomes Competencies:**

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.

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<table>
<thead>
<tr>
<th>Course Learning Outcome</th>
<th>Components Indicating Competence</th>
<th>Grades Received</th>
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<tbody>
<tr>
<td>1</td>
<td>Midterm 1, Assignment 1</td>
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<td>Quiz 1-5, Quiz 10, Assignment 2, Midterm 1&amp;2</td>
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