

# SYLLABUS FOR CSDS 125 - AUDIOMETRY AND AUDIOLOGY FOR SCHOOL NURSES

California State University, Fresno

Spring 2020

**Instructor:** Dr. Cynthia A. Cavazos

**Email:** [cynthiac@csufresno.edu](mailto:cynthiac@csufresno.edu)

**Office Location:** PHS 201

**Telephone:** (559) 278-6967

**On-Campus Office Hours:** Tuesdays and Thursdays 8:00 a.m. to 8:30,  
Wednesdays 10:00 a.m. to 11:00 a.m. and 12:00 p.m. to 1:00 p.m.

**On-Line Office Hours:** Mondays 2:00 p.m. to 4:00 p.m. via email

## Course Information:

**Units:** 3 units

**Time:** Online, except for on campus practicum scheduled for Friday,  
March 20 **OR** Saturday, March 21, 2020 from 9:00 a.m. to 3:00 p.m.

**Location for on campus practicum:** PHS 216

**Website:** Canvas at

<http://fresnostate.edu/academics/canvas/>

**Prerequisites:** Nursing major, nursing professional, or permission of instructor.

## Textbooks:

1. Download free of charge the Manual for the School Audiometrist at:  
<http://cshca.wpengine.netdna-cdn.com/wp-content/uploads/2011/09/audmanschool.pdf>

2. Optional purchase: Ukstins, C. A. and Welling, D. R. *Fundamentals of Audiology for the Speech-Language Pathologist*, (1<sup>st</sup> or 2<sup>nd</sup> ed.).

3. **Computer Requirements:** In order to complete this course, you will need the following:

A. PC or Mac with an Internet connection.

Access the Internet using the method you normally use to connect to the Web.

(1) After your computer has connected to the Internet, open a Web Browser such as Firefox, Internet Explorer, and Safari to access Canvas. Firefox is the recommended browser.

(2) By default, Canvas sends mail to your CSUFRESNO email account. If you don't remember your password or user ID, want to reset your password, or need to create an email account, the Technology Services Help Desk can

assist by contacting 559-278-5000, accessing the web page at: <http://www.csufresno.edu/technology> , or using the link on the email login page:

<https://email.csufresno.edu/index.php>

If you do not check your FRESNO STATE email address regularly, please go in immediately and forward your messages to the account that you do check

- B. Microsoft Office and PowerPoint 2000 or newer version. If you do not have a valid version of Microsoft Office or PowerPoint
- C. Real Player or Windows media player for audio or video clips.
- D. Adobe Acrobat Reader. If you do not have the Adobe Acrobat Reader proceed to: <http://www.adobe.com> and download the FREE Reader. There is a link on the bottom right side of this website to "Adobe" that will open up another web page allowing you to then download. You will need this plug-in to access documents posted in this class

### **Dissemination of Information:**

This is an on-line course where course material will be made available via Canvas. The following Canvas components will be utilized:

1. Announcements: To share pertinent information quickly
2. Assignments: Location where assignments will be posted with instructions and allow submission.
3. Modules containing weekly objectives, PowerPoint with audio, additional readings, external links, video clips, assignments and quizzes
4. Discussion: To post questions, respond to prompts, and respond to fellow students' posts.
5. Quizzes: For taking quizzes and final exam
- 6 Grades: For maintaining on-line grades
7. Syllabus: Posting of course syllabus

The course also requires a visit to California State University, Fresno for the practicum portion of the course scheduled for Friday, March 20, 2020 **or** Saturday, March 21, 2020. Please plan accordingly for the day you have been assigned based upon your course registration date and preference. This experience is worth 100 points. Failure to attend this practicum will automatically grant an incomplete grade.

### **Examinations and Major Assignments:**

Class quizzes are completed on-line and consist of short answer, multiple-choice and true/false style question that primarily derive from PowerPoint presentations and assigned readings for that specific module. Quizzes range in value from 10 to 25 points each and are timed with an allotment of 30 to 60 minutes. The allotted time will be

stated prior to beginning a quiz. There are 12 quizzes throughout the semester and are tentatively scheduled as outlined in the course schedule contained within this syllabus.

There are 2 class assignments that are worth 30 and 50 points each. The assignments are used as a tool to measure your ability to synthesize material that has thus far been presented. Please see course schedule for due dates.

Final Examination is comprehensive and must be taken on-line during the designated time period. The same question format used for quizzes will also be used for the final. The intent of the final is to measure learning outcomes of course objectives. The final exam is valued at 75 points. To prepare for the final exam, it is suggested that you review quizzes.

### On-Campus Practicum:

The on-campus practicum is an opportunity for students to get hands-on experience with the audiometric equipment (i.e., audiometer, otoscope, immittance audiometry, etc.). Students will practice administering and interpreting the variety of tests discussed during the semester. Throughout the day, students will demonstrate competencies on the various lab assignments as listed on the syllabus. This experience is valued at 100 points. Failure to attend this practicum will automatically grant an incomplete grade.

Please be on time for the practicum portion scheduled at California State University, Fresno. Any student who misses more than 30 minutes of the on-campus portion of the class will receive zero points and not be allowed to participate. As a courtesy to others, please turn off all pagers and cell phones. Be respectful and considerate of others.

### Discussion Board:

Within each module is a “question and answer” format. A question has been posted for all fourteen modules, but **you are only required to respond to nine forums**. You can choose the forum that you would like to answer and to receive credit the answer **must be posted by midnight of the specified deadline date**. Responses made after the deadline date will not be allowed credit.

Each student has the ability of earning up to five points on nine forums (total of 45 points) based on the level of your response. Participation to Canvas discussion groups must be beyond a simple statement of “I agree” or “disagree” or “yes” or “no”. Meaningful, well-intended and thoughtful contributions will receive the five-point

maximum allowed per discussion board. I will do my best to keep a current running total of your participation points on the grade book housed within Canvas.

You can also use these forums to ask your own question and answer the questions of others. I will consider your participation in this aspect for those students who have borderline grades (i.e., 89%). If you do not have a question, you can still answer a question or make a comment to show your involvement.

Furthermore, there is also a “student lounge” to speak to your fellow students on items unrelated to class. Sorry, no extra points for this.

### Make-up Policies:

You are expected to take all quizzes at the regularly schedule times. No special quiz time will be arranged for a student. In case of emergency, please leave a message on voice-mail or an email before the exam. Leaving a message does not mean you will be automatically allowed to make-up the quiz. Emergencies imply cases such as hospitalization of student, death in the family, but not situations such as forgetting the exam date, being too stressed or busy. You still need to discuss the situation with me. Accepted make-ups will be taken during a prearranged date and time. A special password will then need to be provided during an agreed timeframe.

Attendance of the entire on-campus meeting is mandatory and no make-ups of this experience will be allowed. Students who are not able to attend the entire practicum will receive no points for this portion of their grade and a final course grade of “incomplete”.

All assignments are due by midnight (PST) on the due date. It is your responsibility to make sure that assignments are turned-in on time. Late submissions will not be accepted and receive a value of zero. Discussion board postings are also due by midnight as stated on the tentative schedule and late postings will be given a value of zero.

The final examination will be available online and must be taken by midnight of Friday, March 27 to receive credit. Any submissions beyond this period will not be graded and a value of zero will be assigned.

### Grading Policy:

The following will be used to calculate grades:

1. Class quizzes (12)	195 points
2. Class assignments	80 points
3. Discussion Board Participation (9 Minimum)	45 points
4. Ice Breaker	5 points
5. Practicum Attendance and Participation	100 points
6. Final Examination (online)	<u>75 points</u>
TOTAL POINTS	500 points

Grades are assigned according to the University Policy as outlined in the General Catalog. Grades will be determined based on the following:

A = 90 - 100%	B = 80 - 89%
C = 70 - 79%	D = 60 - 69%
F = 0 - 59%	

Grades of I, W, CR/NC will be issued ONLY as noted in the General Catalog.

### Email:

The University provides free email accounts to all students. All CSDS 125 students are required to use their Fresno State email address for instructor only related communications. In addition, if you have something of a personal nature that needs to be discussed, please use the personal email for communication. Don't post to Canvas.

General questions should be posted on the "Q and A" discussion boards so that I am not bombarded with questions that would be helpful for the entire class to "hear", well actually read.

### Course Goals:

This course prepares students in obtaining certification as a School Audiometrist. It introduces the profession of Audiology, hearing loss and its medical aspects. This course also encompasses the components of a hearing conservation program, basic assessment and management of individuals with hearing loss, and the fundamentals in interpreting diagnostic test results. Upon successful completion, you may submit official transcripts and application to the State of California along with appropriate fee payment to obtain the School Audiometrist Certificate.

### Primary Learning Outcomes:

The goals for this course are intended to assist the Nursing student whose aim is to complete the requirements for the School Nurse credential. As part of this credential, a course on audiometric testing and the administration of a hearing conservation program is required. The competent student will successfully attain the specific skills:

1. Overview of legislation and mandates impacting California's Newborn Hearing Screening Program (NHSP) and Hearing Conservation Program (HCP)
2. Knowledge of anatomy and physiology of the auditory system
3. Basic otoscopy
4. Comprehension of the pathways of human sound conduction
5. Discuss common disorders associated with the human auditory system
6. Fundamental audiological measurements
7. Knowledge of hearing loss and its impact on normal childhood development
8. Competency on audiometric screening
9. Proficiency of threshold tracking and testing
10. Skills with testing exceptional children
11. Completion of basic audiologic evaluation procedures of the auditory system
12. Fundamental interpretation of audiometric test findings
13. Comprehension of the school nurse's role in testing, recordkeeping, and management of California's Hearing Conservation Program
14. Familiarity with the latest technology and tools utilized to assess hearing sensitivity and aid in re(habilitation)

### Practicum Experience:

The practicum experience is scheduled in the CSDS Department, PHS 216, at California State University, Fresno for Friday, March 20 or Saturday, March 21. You will be notified prior to the start of class which day you have been assigned. In order to prepare, the following goals and objectives have been created for the practicum:

Goal 1: Ability to perform basic otoscopy

Objectives:

- a. Prepare client
- b. Easily manipulate otoscopic equipment
- c. External inspection

- d. Internal inspection
- e. Identification of landmarks, features, and/or disorders

Goal 2: Ability to perform listening check

Objectives:

- a. Ease with the manipulation of the audiometric controls
- b. Competency with completing the listening check form
- c. Simple troubleshooting

Goal 3: Ability to perform pure tone threshold screen

Objectives:

- a. Appropriate use of audiometric equipment
- b. Familiarity with the constraints of the test environment
- c. Understand the requirements of the HCP
- d. Proper instruction and preparation of client
- e. Perform hearing screening on another student
- f. Record findings
- g. Discuss pass/refer criteria

Goal 4: Ability to perform pure tone thresholds as part of a HCP

Objectives:

- a. Appropriate use of audiometric equipment
- b. Familiarity of the constraints of the test environment
- c. Proper instruction and preparation of client
- d. Perform hearing threshold testing on another student
- e. Understand the requirements of the HCP
- f. Record findings
- g. Discuss pass/refer criteria
- h. Review play audiometry techniques

Goal 5: Ability to perform immittance and otoacoustic emissions (OAE) testing

- a. Proper use of the equipment
- b. Appropriate instructions to the client
- c. Ability to interpret the tympanogram based on Jerger's classification system
- d. Understand pass/refer implications of OAE
- e. Identify disorders that require referral

**Study Suggestions:**

1. Plan to spend sufficient time working with the content of the course.

2. Read the assigned pages before the material is covered in the class.
3. Take notes from the audio of the PowerPoint presentations.
4. Study regularly, not the night before the quiz.
5. Please see me right away if you need help with the subject matter.

### Classroom Behavior:

Please use netiquette while participating on-line. There is a good source on the "Welcome Letter" that was emailed to each student and is also posted on the announcement section of Canvas. Students are encouraged to ask other students for general assistance by posting their questions on the discussion boards. Direct questions regarding the quizzes or exam are inappropriate as some students may have not yet taken the tests.

"The classroom is a special environment in which students and faculty come together to promote learning and growth. It is essential to this learning environment that respect for the rights of others seeking to learn, respect for the professionalism of the instructor, and the general goals of academic freedom are maintained. Differences of viewpoint or concern should be expressed in terms which are supportive of the learning process, creating an environment in which students and faculty may learn to reason with clarity and compassion, to share of themselves without losing their identities, and to develop an understanding of the community in which they live. Student conduct which disrupts the learning process shall not be tolerated and may lead to disciplinary action and/or removal from class."

### Students with Disabilities:

Upon identifying themselves to the instructor and the university, students with disabilities will receive reasonable accommodation for learning and evaluation. For more information, contact Services to Students with Disabilities (559-278-2811). Please notify the instructor immediately of any special accommodation you may need.

### Honor Code:

"Members of the CSU Fresno academic community adhere to principles of academic integrity and mutual respect while engaged in university work and related activities." You should:

- a) understand or seek clarification about expectations for academic integrity in this course (including no cheating, plagiarism and inappropriate collaboration)
- b) neither give nor receive unauthorized aid on examinations or other course work that is used by the instructor as the basis of grading.
- c) take responsibility to monitor academic dishonesty in any form and to report it to the instructor or other appropriate official for action.

### Cheating and Plagiarism:

"Cheating is the actual or attempted practice of fraudulent or deceptive acts for the purpose of improving one's grade or obtaining course credit; such acts also include assisting another student to do so. Typically, such acts occur in relation to examinations. However, it is the intent of this definition that the term 'cheating' not be limited to examination situations only, but that it includes any and all actions by a student that are intended to gain an unearned academic advantage by fraudulent or deceptive means. Plagiarism is a specific form of cheating which consists of the misuse of the published and/or unpublished works of others by misrepresenting the material (i.e., their intellectual property) so used as one's own work." Penalties for cheating and plagiarism range from zero points to a grade of an F on a particular assignment, through an F for the course, to expulsion from the university. For more information on the University's policy

regarding cheating and plagiarism, refer to the Class Schedule (Legal Notices on Cheating and Plagiarism) or the University catalog (Policies and Regulations). As an on-line course, you must always use your best ethical judgment.

**Drop for Serious and Compelling Reason:**

A request to drop a class for serious and compelling reasons must be completed in ink and on an add/drop card and must be approved by the instructor, the department chair and the Dean of the School. Documentation will be required prior to approval of a drop for serious and compelling reasons. Failing or performing poorly in a class are not an acceptable serious and compelling reason within the university policy, nor is dissatisfaction with the subject matter, class, or instructor. If for some reason you are not in a position to take this class and would like to drop, please do so during the regular drop period.

**Subject to Change:**

This syllabus and schedule are subject to change in the event of extenuating circumstances. It is your responsibility to regularly (suggested at least every other day) check on announcements that may be posted on Canvas.

**Tentative Schedule**

DATE	ASSIGNMENTS/QUIZZES/EXAMS/ DISCUSSION BOARD (DB) POSTING - <b>DUE MIDNIGHT (PST) ON LISTED DATE</b>	POINT VALUE
Tues. 1/21	School Starts Module 1 (Introduction) opens Module 2 (Anatomy & Physiology of the Human Ear) opens Quiz 1 opens Quiz 2 opens	
Fri. 1/24	Module 3 (Otoscopy) opens Module 4 (Sound Conduction) opens Quiz 3 opens Quiz 4 opens	
Mon. 1/27	Quiz 1 closes Quiz 2 closes DB 1 closes DB 2 closes Icebreaker Due	10 20  5
Fri. 1/31	Module 5 (Disorders of the Ear) opens Module 6 (Audiometric Measurements) opens Quiz 5 opens Quiz 6 opens	

DATE	ASSIGNMENTS/QUIZZES/EXAMS/ DISCUSSION BOARD (DB) POSTINGS - <b>DUE MIDNIGHT (PST) ON LISTED DATE</b>	POINT VALUE
Mon. 2/3	Quiz 3 closes Quiz 4 closes DB 3 closes DB 4 closes	10 15
Fri. 2/7	Module 7 (Effects of Hearing Loss) opens Module 8 (Audiometric Screening) opens NO Quiz 7 Quiz 8 opens Module 7 assignment available	
Mon. 2/10	Quiz 5 closes Quiz 6 closes DB 5 closes DB 6 closes	20 10
Fri. 2/14	Module 9 (Threshold Tracking) opens Quiz 9 opens	
Mon. 2/17	Quiz 8 closes DB 7 closes DB 8 closes	25
Wed. 2/19	Assignment Module 7 due	50
Fri. 2/21	Module 10 (Testing Exceptional Children) opens Module 10 assignment available	
Mon. 2/24	Quiz 9 closes DB 9 closes	20
Fri. 2/28	Module 11 (Audiological Evaluation) opens Quiz 11 opens	
Mon. 3/2	Quiz 10 closes DB 10 closes	10
Wed. 3/4	Assignment Module 10 due	30
Fri. 3/6	Module 12 (Audiometric Interpretation) opens 13 (Role of the School Nurse) opens Quiz 12 opens NO quiz 13	

DATE	ASSIGNMENTS/QUIZZES/EXAMS/ DISCUSSION BOARD (DB) POSTINGS - <b>DUE</b> <b>MIDNIGHT(PST) ON LISTED DATE</b>	POINT VALUE
Mon. 3/9	Quiz 11 closes DB 11 closes	20
Fri. 3/13	Module 14 (Current Audiological Tests) opens Quiz 14 opens	
Mon. 3/16	Quiz 12 closes DB 12 closes DB 13 closes	15
Fri. 3/20 <b>or</b> Sat. 3/21	Practicum at California State University, Fresno	100
Sun. 3/22	Final Examination opens - ONLINE	75
Mon. 3/23	Quiz 14 closes DB 14 closes	20
Fri. 3/27	Final Examination due	
	Discussion Boards (Participated in 9 at 5 points each)	45
	<b>Total Points in Course</b>	<b>500</b>