

Last name of instructor (Semester Year)

## California State University, Sacramento

### AUDITORY EVOKED POTENTIALS LAB

CSAD641L - 1 unit

Fall 2020 (AUD-2)

#### **COURSE FACULTY**

**Course Instructor:**

**Folsom Hall office #:**

**Office Phone:**

**Office Hours:**

**E-mail address:**

#### **REQUIRED CLASS MEETINGS TIMES**

Days and times:

Building: Folsom      Room #:

#### **REQUIRED TEXTS**

None

#### **OPTIONAL TEXTS**

Atcherson, S.R., & Stoodly, T.M. (2012). *Auditory electrophysiology: A clinical guide*. Thieme.

Katz, J. (2011). *Handbook of clinical audiology* (7<sup>th</sup> ed.). Wolters Kluwer.

#### **COURSE WEBSITE**

<https://sacct.csus.edu>

SacCT will be used as the learning management site for dissemination of course readings, handouts, slides, assignments, announcements, and tests/quizzes. The course faculty will have materials posted to SacCT at least 48 hours before class.

#### **Instructor Communication and Response Time**

Faculty strive to have open communication with students both within and outside of the classroom. Students are encouraged to contact faculty to discuss questions about the course. Responses to telephone or e-mail messages will usually be transmitted within 48 hours during regular working hours. If you do not have a response within this time period, please check your contact methods and resend the message. Faculty will generally respond to student questions received during evenings and weekends once they are back in the office during regular business hours.

**\*Please be aware that all content for this course is the property of the course faculty who have created it and can only be used for this course. Those wishing to use the materials outside of this course must receive written permission from the author/creator.**

#### **GENERAL COURSE INFORMATION**

##### **PRE-REQUISITES**

Admission to Doctor of Audiology program; CSAD611, CSAD612, CSAD613, CSAD614, CSAD621, CSAD622, CSAD622L, CSAD623, CSAD624, CSAD631, CSAD632

##### **CO-REQUISITES**

## COURSE DESCRIPTION

### Overview

This course accompanies CSAD641: Auditory Evoked Potentials. Students will learn about and gain experience with preparing, performing, and reporting physiological measures, especially the auditory brainstem response.

### Approved Course Description (from CSUS Course Catalog)

Lab component includes administration and reporting of physiological assessments presented in CSAD641: Auditory Evoked Potentials.

## WHY IS THIS COURSE IMPORTANT?

This lab course provides hands-on experiences with electrophysiological measures to objectively assess the auditory system. For off-campus clinical sites where, for example, ABRs are performed, this site will prepare students to participate actively. For students interested in using these methods for their capstone, experience with other electrophysiological measures will be provided.

## UNIVERSITY LEARNING GOALS

	1 Disciplinary knowledge	2 Communication	3 Critical thinking/analysis	4 Information literacy	5 Professionalism	6 Intercultural/global perspectives	7 Research
Addressed by this course	X		X	X	X		X

## GRADUATE LEARNER OUTCOMES

Mastery of each student learning outcome listed below is indicated by a grade of B 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 B. 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.

Upon completion of this course, students will be able to:

1. Identify the major components of instrumentation used in electrophysiological measures
2. Administer electrophysiological measures (ECoG, ABR, ASSR)
3. Interpret electrophysiological measures (ECoG, ABR, ASSR) to estimate hearing thresholds or to diagnose disorders of the auditory system
4. Discuss the use of intraoperative monitoring within the audiologist's scope of practice

## COURSE OBJECTIVES and ALIGNMENT WITH GENERAL PROGRAMMATIC OUTCOMES

At the end of the course, each student will be able to demonstrate the following outcomes:

Graduate Learner Outcome	Component Indicating Competence	Grade(s) Received
1-3	Laboratory (100%)	
1-4	Exam (100%)	

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Observation reflection paper (100%)

## COURSE/CLASS POLICIES

### Course Format

Laboratory

### Class Preparation:

All required readings are for the date listed in the course schedule, not the following class period. Students are responsible for all assigned readings, whether discussed in class or not.

### Class Participation:

Students are expected to actively participate in labs and are required to have read the assigned material prior to class meetings.

### Class Attendance:

Classroom attendance is necessary for this course. No more than three unexcused absences are allowed. Students are expected to arrive on time as class begins at X:XX am/pm.

### Class Assignments

Course grades will be based on laboratory exercises, an observation reflection, and a final exam.

### Lab exercises

Labs will be introduced and started in class, but students are expected to complete the labs outside of class. Each lab will have a worksheet report, which is due in class by the date listed on the course schedule. Though labs may require partner or small group work, lab reports are to be completed and submitted individually.

### Observation Reflection Paper

Students will observe an intraoperative monitoring session during the course and write a reflection paper on the procedure observed, how the procedure observed relates to auditory evoked potentials coursework, and any insights gained that could be used in counseling patients.

### Exams

- **Exam absences:** No make-up examinations will be given unless there is a documented emergency for which you have written proof. Any approved make-up exams will be scheduled at the end of the semester (during finals week) and may be administered in a different format from the original exam.

- **Exam procedures:**

Test arrival/start: The final exam is held during the final week of classes. The exam consists of a written portion and a practicum. Students should be prepared to administer and/or interpret electrophysiologic measures for estimation of hearing threshold or diagnosis.

Test duration and completion

### Commitment to Integrity

As a student in this course (and at this university) you are expected to maintain high degrees of professionalism, commitment to active learning and participation in this class and also integrity in your behavior in and out of the classroom.

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### **Sac State's Academic Honesty Policy & Procedures**

"The principles of truth and honesty are recognized as fundamental to a community of scholars and teachers. California State University, Sacramento expects that both faculty and students will honor these principles, and in so doing, will protect the integrity of academic work and student grades." Read more about Sac State's Academic Honesty Policy & Procedures at the following website: <http://www.csus.edu/umannual/AcademicHonestyPolicyandProcedures.htm>

*Definitions:* At Sac State, "cheating is the act of obtaining or attempting to obtain credit for academic work through the use of any dishonest, deceptive, or fraudulent means."

"Plagiarism is a form of cheating. At Sac State, "plagiarism is the use of distinctive ideas or works belonging to another person without providing adequate acknowledgement of that person's contribution." *Source:* Sacramento State University Library

*Note:* Any form of academic dishonesty, including cheating and plagiarism, shall be reported to the office of student affairs.

### **Understand When You May Drop This Course**

It is the student's responsibility to understand when he/she need to consider disenrolling from a course. Refer to the Sac State Course Schedule for dates and deadlines for registration. After this period, a serious and compelling reason is required to drop from the course. Serious and compelling reasons include: (a) documented and significant change in work hours, leaving student unable to attend class, or (b) documented and severe physical/mental illness/injury to the student or student's family. Under emergency/special circumstances, students may petition for an incomplete grade. An incomplete will only be assigned if there is a compelling extenuating circumstance. All incomplete course assignments must be completed in accordance with the department's policy.

### **Accommodations**

Inform your instructor of any accommodations needed. 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. SSWD is located in Lassen Hall 1008 and can be contacted by phone at [\(916\) 278-6955](tel:9162786955) (Voice) or [\(916\) 278-7239](tel:9162787239) (TDD only) or via email at [sswd@csus.edu](mailto:sswd@csus.edu)

### **Course Requirement Grading**

<b><u>Activity</u></b>	<b><u>Points Available</u></b>
Lab report (7 x 50 points each)	350
Intraoperative monitoring observation paper	50
Practical exam	500
<b><u>TOTAL COURSE POINTS AVAILABLE</u></b>	900

### **Overall Percentage Needed**

Note: A grade of "B" or higher is required to count toward the minimum number of units needed to advance to candidacy.

<b><u>Grade</u></b>	<b><u>Percentage</u></b>
A	93-100%
A-	90-92%
B+	87-89%

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B	83-86%
B-	80-82%
C+	77-79%
C	73-76%
C-	70-72%
D+	67-69%
D	63-66%
D-	60-62%
F	< 60%

**COURSE SCHEDULE OF LECTURE TOPICS AND EXAMS**

Date	Topic and Activity or Quiz and Exam	Readings/ Assignment
8/26	Introduction to lab	
9/2	Lab 1: Components, instrumentation	
9/9	Electrodes and patient preparation	Lab 1 due
9/16	Lab 2: Calibration of stimuli; recording parameters	
9/23	Lab 3: Clicks, tone bursts	Lab 2 due
9/30	No class	
10/7	Stimuli and recording	
10/14	Lab 4: ECoG	Lab 3 due
10/21	Lab 5: ABR (i)	
10/28	No class	
11/4	Lab 6: ABR (ii)	Lab 4 due
11/11	Intraoperative monitoring	Lab 5 due
11/18	Lab 7: ASSR	
11/23	No class	
12/2	Case study	Lab 6 due
12/9	Exam	

Please note that dates, topics, and assignments are subject to change. In the event of a change, you will be given ample notification of the change.