

San José State University
Department of Communicative Disorders and Sciences
EDAU 115 Intro To Hearing Science, Fall Semester, 2017

Course and Contact Information

Instructor:	Erin Nokes, Au.D.
Office Location:	Sweeney Hall 118 E
Telephone:	(408) 924-3688
Email:	Erin.nokes@gmail.com or Erin.ginney@sjsu.edu (or through CANVAS)
Office Hours:	Wednesday 8:00-9:00a
Class Days/Time:	Wednesday 9:00-11:45a
Classroom:	Sweeney Hall 346
Prerequisites:	CDS major, upper division standing, or instructor consent.
GE/SJSU Studies Category:	n/a

Course Format

Classroom based lecture. Curriculum available on Canvas via computer or tablet device via internet. Assignments will need to be uploaded to Canvas

Course Description

Anatomy, physiology, acoustics and psychoacoustics of the normal auditory system. This course is also intended to familiarize students with the profession of audiology.

Student Learning Objectives: The following competencies are to be developed during the semester:

- A. Knowledge of acoustics of sound and stimulus parameters in hearing science.
- B. Knowledge of anatomy and physiology of the outer ear, middle ear, inner ear, auditory nerve, and ascending auditory pathways.
- C. Knowledge of the psychological correlates of auditory stimuli, including absolute and differential threshold, masking and critical bands, beats, loudness, pitch, adaptation and fatigue, and binaural hearing.

Required Texts/Readings

Textbooks

Lass, Norman and Woodford, Charles (2007) Hearing Science Fundamentals. Mosby Elsevier Press.

Yost, WA, Fundamentals of Hearing: An Introduction (Fourth Edition), Elsevier Academic Press. Supplemental Text; not required

Supplemental websites for alternative approaches to the material will be announced in class.

Course Requirements and Assignments

The course is primarily a lecture course, although there will be periodic laboratory demonstrations. The students are responsible for reading all assignments, and should be prepared to participate in class discussions as they arise.

Two examinations will be given during the semester, at about the middle and end of the semester. These examinations will consist of multiple choice, fill-ins, and short answers. The examinations will cover primarily lecture material; the readings are intended to be supplemental in nature. No make-up examinations are allowed

In addition, short quizzes will be given on six dates throughout the semester, or approximately every other week. The purpose of the quizzes is three-fold: 1) to encourage students to keep up with the material at regular intervals; 2) to assist in studying for the exams, and 3) to be used in determining the final course grade.

Each quiz will be worth 10 points toward the final course grade, and one quiz may be dropped from consideration at the end of the year. Quizzes may not be made up since you are allowed to drop one quiz.

Success in this course is based on the expectation that students will spend, for each unit of credit, a minimum of 45 hours over the length of the course (normally 3 hours per unit per week with 1 of the hours used for lecture) for instruction or preparation/studying or course related activities including but not limited to internships, labs, clinical practica. Other course structures will have equivalent workload expectations as described in the syllabus

Final Examination or Evaluation

A final examination will include material covered in the second half of the semester.

Grading Information

Grades will be determined in the following manner:

Exam One (Mid-term): 50 points.

Exam Two (Final) (NOT cumulative): 50 points.

Quizzes: 50 points (best 5 scores)

Total Points: 150

Grading Policy: Grades will be determined based on points (see above) earned through quizzes, mid-term & final examinations. Your letter grade will be based on the following scale.

A+	98%-100%	B+	87%-89%	C+	77%-79%	D	60%-69%
A	97%-94%	B	84%-86%	C	74%-76%	F	59% & below
A-	90%-93%	B-	80%-83%	C-	70%-73%		

At the discretion of the instructor, make-up exams will be given for documented illness and/or emergencies. For illness, a note from a medical professional will be required. For other emergencies, an appropriate verification will be required. ****In case you are ill and/or have an emergency, please let me know with 24 hours after missed exam date by email or in person. Any notification after the 24-hour period will not be accepted, and you will not be able to make up the missed deadline.**

Classroom Protocol

In consideration of others in the class, please arrive to class on time and make sure your cell phones are turned off or on silent mode

You are responsible for obtaining copies of any class notes or handouts that were presented and distributed on a day you were absent

Read and use your green sheet (syllabus)

Be prepared and ready to answer questions during any given class

Participate in class discussions by making comments, answering and asking questions

Function as a good classroom citizen by respecting others opinions and being an active listener

Communicate with instructor about concerns as they arise

University Policies

Per University Policy S16-9, university-wide policy information relevant to all courses, such as academic integrity, accommodations, etc. will be available on Office of Graduate and Undergraduate Programs' [Syllabus Information web page](http://www.sjsu.edu/gup/syllabusinfo/) at <http://www.sjsu.edu/gup/syllabusinfo/>"

EDAU 115 / Intro to Hearing Science, Fall 2017, Wednesday 9:00-11:45

- Topic coverage is flexible and influenced by the pace of the students in class. Changes in format and pace of the course during the semester are up to the discretion of the instructor.
- The course schedule (below) in a general plan for the semester and changes will be announced to the class via Canvas and/or class lectures
- It is critical to consult Canvas frequently for updates and announcements

Course Schedule

8/23	Week 1	Overview of course, Introductions
8/30	Week 2	Profession of Audiology, Acoustics
9/6	Week 3	Acoustics, decibels
9/13	Week 4	Decibels (con't), Outer ear
9/20	Week 5	QUIZ 1 Middle ear, inner ear

9/27	Week 6	QUIZ 2 Inner ear, Central auditory pathways
10/4	Week 7	QUIZ 3 Central auditory pathways, REVIEW
10/11	Week 8	MIDTERM
10/18	Week 9	Psychoacoustic methods
10/25	Week 10	QUIZ 4 Absolute threshold & differential threshold
11/1	Week 11	Beats & non-linearities
11/8	Week 12	QUIZ 5 Masking
11/15	Week 13	Loudness & Pitch
11/29	Week 14	QUIZ 6 Binaural hearing
12/6	Week 15	Spillover of material, Review