Hearing Science (ASLP 6660)
Department of Audiology and Speech-language Pathology
University of North Texas
Fall 2020

Instructor: Benjamin Kirby, Ph.D., CCC-A
Class Time: T 4:00-6:50 p.m. BLB 065
Office Hours: SPHC 213; by appointment
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Course Goals

To provide an overview of the principles of hearing science, including basic acoustics, audio recording and processing, anatomy and physiology of the ear, psychoacoustics, and fundamentals speech perception.

Learning Objectives

Upon completion of this course, each student will be able to:

1) Describe the fundamental properties of acoustics
2) Describe the anatomical and physiological bases of hearing
3) Describe the basic principles of psychoacoustics and how they apply to the assessment of hearing

Required Textbook


Course Topics and Schedule (subject to change at instructor’s discretion)

<table>
<thead>
<tr>
<th>DATE</th>
<th>TOPICS &amp; ASSIGNMENTS</th>
<th>READINGS</th>
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<tbody>
<tr>
<td>Aug 25</td>
<td>1) Overview of Course, Review of Acoustics</td>
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<tr>
<td>Sept 1</td>
<td>Review of Acoustics Continued</td>
<td>Chapter 1</td>
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<td>Sept 8</td>
<td>2) Analog and Digital Signals, Audio Equipment</td>
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<td>Sept 15</td>
<td>3) Anatomy and Physiology: Outer and Middle Ear</td>
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<td>Sept 22</td>
<td>4) Anatomy and Physiology: Cochlea and CNS</td>
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<td>Sep 29</td>
<td>EXAM 1 (ONLINE)</td>
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<td>Oct 6</td>
<td>5) Psychoacoustics</td>
<td>Chapter 2</td>
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Assignments and Grading

Labs, Assignments and Quizzes (25%): Quizzes will be administered online.

Exams (75%): Three exams, each worth 25% of your total course grade. Exams will cover course material and will consist of multiple choice, short answer, and short essay questions. Exams will be administered online.

UNT Policies

Academic Integrity Standards and Consequences
According to UNT Policy 06.003, Student Academic Integrity, academic dishonesty occurs when students engage in behaviors including, but not limited to cheating, fabrication, facilitating academic dishonesty, forgery, plagiarism, and sabotage. A finding of academic dishonesty may result in a range of academic penalties or sanctions ranging from admonition to expulsion from the University.

ADA Accommodation Statement
UNT makes reasonable academic accommodation for students with disabilities. Students seeking accommodation must first register with the Office of Disability Accommodation (ODA) to verify their eligibility. If a disability is verified, the ODA will provide a student with an accommodation letter to be delivered to faculty to begin a private discussion regarding one’s specific course needs. Students may request accommodations at any time, however, ODA notices of accommodation should be provided as early as possible in the semester to avoid any delay in implementation. Note that students must obtain a new letter of accommodation for every semester and must meet with each faculty member prior to implementation in each class. For additional information see the ODA website at disability.unt.edu.

Attendance Policy
Please make every effort to arrive in class prepared and on time. If you will be absent, please contact me in advance or at your soonest convenience.

COVID-19 impact on attendance
While attendance is expected as outlined above, it is important for all of us to be mindful of the health and safety of everyone in our community, especially given concerns about COVID-19. Please contact me
if you are unable to attend class because you are ill, or unable to attend class due to a related issue regarding COVID-19. It is important that you communicate with me prior to being absent as to what may be preventing you from coming to class so I may make a decision about accommodating your request to be excused from class.

If you are experiencing cough, shortness of breath or difficulty breathing, fever, or any of the other possible symptoms of COVID-19 (https://www.cdc.gov/coronavirus/2019-ncov/symptoms-testing/symptoms.html) please seek medical attention from the Student Health and Wellness Center (940-565-2333 or askSHWC@unt.edu) or your health care provider. While attendance is an important part of succeeding in this class, your own health, and those of others in the community, is more important.

Class Materials for Remote Instruction
The UNT fall schedule requires this course to have fully remote instruction beginning November 28th. Additional remote instruction may be necessary if community health conditions change or you need to self-isolate or quarantine due to COVID-19. Students will need access to a webcam and microphone to participate in fully remote portions of the class. Additional required classroom materials for remote learning include: Zoom.

Face Coverings
Face coverings are required in all UNT facilities. Students are expected to wear face coverings during this class. If you are unable to wear a face covering due to a disability, please contact the Office of Disability Access to request an accommodation. UNT face covering requirements are subject to change due to community health guidelines. Any changes will be communicated via the instructor.

Class Recordings
Synchronous (live) sessions in this course may be recorded for students to refer to throughout the semester. Class recordings are reserved for use only by students in this class for educational purposes. The recordings should not be shared outside the class, or outside the Canvas LMS, in any form. Failing to follow this restriction is a violation of the UNT Code of Student Conduct and could lead to disciplinary action.

Emergency Notification & Procedures
UNT uses a system called Eagle Alert to quickly notify students with critical information in the event of an emergency (i.e., severe weather, campus closing, and health and public safety emergencies like chemical spills, fires, or violence). In the event of a university closure, please refer to Blackboard for contingency plans for covering course materials.