Seminar: Speech Perception (ASLP 6730.005)
Department of Audiology and Speech-language Pathology
University of North Texas
Spring, 2020

Instructor: Benjamin Kirby, Ph.D., CCC-A
Class Time: Th 5:00-7:50 p.m. SPHC 162
Office Hours: SPHC 213; by appointment
Telephone: (940) 369-7413
Email: Benjamin.Kirby@unt.edu

Course Goals

To provide an overview of the many different issues and areas related to speech perception including speech acoustics, development of speech perception in infants and children, the impact of hearing loss and auditory prosthesis parameters on speech perception, and psycholinguistic and neurophysiological accounts of speech processing.

Learning Objectives

The student will be able to: 1) describe the acoustic cues that identify the sounds of speech, 2) describe the impact of hearing loss on and auditory prosthesis parameters on perception of speech sounds, 3) demonstrate understanding of developmental course of speech sound perception, and 4) discuss the interrelationship of the acoustic environment and the perception of speech by listeners with and without hearing loss.

Required Textbook

Assigned readings.

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

<table>
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<tr>
<th>DATE</th>
<th>TOPIC &amp; ASSIGNMENTS</th>
<th>ASSIGNED READING</th>
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<tr>
<td>Jan 16</td>
<td>Intro</td>
<td>“Reading Research Papers” by Dr. Kirby</td>
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<td>Jan 23</td>
<td>Speech Acoustics: Vowels</td>
<td>Hillenbrand et al. 1995; Ito et al. 2001</td>
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<td>Feb 13</td>
<td>Development of Speech Perception: Infants</td>
<td>Werker and Tees 1984; McMurray and Aslin 2005</td>
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<td>Feb 20</td>
<td>TSHA NO CLASS</td>
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Feb 27  Non-native speech perception; Foreign-accented speech  Miyawaki et al. 1975; Ferguson et al. 2010

Mar 5  Psychological speech perception phenomena and models; audiovisual speech perception  Ohala 1996; McClelland et al. 2006; McGurk and MacDonald, 1976

Mar 12  SPRING BREAK  

Mar 19  Impact of Hearing Loss; clear speech  Turner, Souza, and Forget, 1995; Picheny et al. 1986

Mar 26  Reverberation and Spatialized Speech perception  Houtgast and Steeneken, 1985; Freyman et al. 2001

Apr 2  AAA  


Apr 16  Cochlear Implant Processing and Speech Perception  Fu and Galvin, 2001; Srinavasan et al. 2013


April 30  Electrophysiological Measures of Speech Perception; Neural imaging  Sharma and Dorman, 1999; Intartaglia et al. 2017; Cheek and Cone, 2019

May 2-8  Finals Week: NO CLASS  

Assignments and Grading

Reading Assignments and Presentation (40%): Each student will present one paper for discussion and will submit weekly responses to all reading assignments.

Class Participation (20%): Students are expected to actively contribute to in-class discussion with questions and comments on the weekly topics.

Take home final (40%): Students will complete a take home writing assignment consisting of short essays and reflection in lieu of a traditional final exam.

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.

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.