COURSE INFORMATION

- ASLP 3030, 3 credit hours
- Course content and activities will be available online, posted on Monday morning each week. There are no specific times/dates that you will need to be available.

Instructor Contact Information

- Dr. Annalise Fletcher
- Email: Annalise.Fletcher@unt.edu
- Office #: UNT Speech & Hearing Center, 216
- Office hours – please email me to schedule an appointment
- Teaching Assistant: Alyssa Rush, alyssakelly2@my.unt.edu

COURSE OBJECTIVES

The goal of this course is that you will come to understand more about how speech sounds are produced and perceived by listeners. In this class, we will explore speech science by applying acoustic analysis techniques to normal and disordered speech. You will gain some hands-on experience with extracting meaningful measures of speech production from digital recordings using simple software tools. As a communication disorders professional, you will need to know how to use technology in your clinical work. Our profession’s emphasis on evidence-based practice underlines the need for you to know how to gather and evaluate evidence of treatment outcomes. By the end of this semester you should feel confident in using readily available software tools to document speech performance. You will also learn about the tools used by speech researchers so that you can get more out of the journal articles you read in professional literature.

Learning Outcomes:

By the end of the course, you will be expected to have knowledge and competence in areas reflected in the American Speech Hearing Association’s CAA standards in the Knowledge and Skills Acquisition (KASA) guidelines:

- Basic principles of speech production, including acoustic and physiological aspects and their measurement + knowledge of the nature of hearing (standard III-B)
- Principles and methods of quantifying a variety of speech disorders, based on a sound grasp of the physiologic basis of normal function, with a goal of documenting treatment outcomes (standard III-D)
- The application of principles from the current research literature in measuring speech performance in preparation for participating in evidence-based practice (standard III-F)
REQUIRED RESOURCES


A Windows or Mac computer. You will be downloading and installing two software programs to complete projects, and this will not work on an iPad or similar tablet device. You need a regular computer and a web browser.

For this class you will need to make recordings with your computer. Most laptops these days have built-in microphones; if your does not have one, you can purchase a simple microphone for less than $20 online or at a local store. You will also need access to a computer with a webcam for taking your exams. Again, most laptops have inbuilt webcams, but you can also purchase a plug-in webcam with microphone for less than $25. You do not need high-quality equipment.

Class Recordings
Class recordings are the intellectual property of the university or instructor and are reserved for use only by students in this class and only for educational purposes. Students may not post or otherwise share the recordings outside the class, or outside the Canvas Learning Management System, in any form. Failing to follow this restriction is a violation of the UNT Code of Student Conduct and could lead to disciplinary action.

Attendance and Class Participation
While regular participation in class discussions and/or other quizzes is expected, 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 ill and need additional time to review class content and complete assessments. It is important that you communicate with me prior to the assessment due date so I may make a decision about accommodating your request.

If you are experiencing any symptoms of COVID-19 please seek medical attention from the Student Health and Wellness Center (940-565-2333 or askSHWC@unt.edu) or your health care provider. UNT also requires you to contact the UNT COVID Hotline at 844-366-5892 or COVID@unt.edu for guidance on actions to take due to symptoms, pending or positive test results, or potential exposure.

COURSE ACTIVITIES

Quizzes

There will be open-book quizzes throughout course. The purpose of these quizzes is to check your understanding of course material at regular intervals, prior to high-stakes exams. To prepare for these quizzes, make sure you have thoroughly reviewed the lecture content and made your own notes. You should also review the corresponding textbook readings, to check your understanding. There are 7 open-book tests. You may be asked about course content from the current week or the previous week. Once you have created your notes for the week, you should be ready for the quiz. Open the time-limited
(60 minute) quiz and answer the questions, referring back to your notes and the textbook as needed. Each reading quiz consists of 10 multiple choice questions, with 4 options (a-d) to choose from.

You can get to these quizzes via the links on the pages of the weeks they are due. Don’t miss the deadlines for these! Notice that they are due on Saturday evening at 11:59 pm. Other courses may have deadlines on different days of the week. You are responsible for abiding by the deadlines for this course. If you need an extension, contact me in advance of the deadline.

Lectures

Lectures are accessible from the links in each module. If you see the slides but do not hear anything, please check your system, because you should hear me speaking in each lecture. If the pace of these lectures is a little fast, you can use the video playback controls to select a speed that works best for you. Some students like to do a quick exam review by speeding up the playback to find the parts they want to hear again.

Software Project "Labs"

This course has 8 software projects that are accompanied by detailed how-to videos. You will be generating sounds and commenting on their perceptual qualities, analyzing recordings to extract numeric data, and simulating speech perception experiments. The goal of these projects is to apply the principles covered in the lectures that might otherwise remain rather abstract. Each project has a due date. If you submit the project late, your score will decrease by 5% per day, including weekends.

If the score you receive for your project is not as high as you had hoped, you may resubmit a corrected version of the project within one week of receiving your score and feedback. You may do this for more than one project during the semester, but only one re-submission is allowed for any project.

Exams

There are three multiple choice exams for you to take this semester.

These are closed-book tests and make up the largest part of your grade, so please prepare thoroughly by following the advice in the next section. The first two unit exams have 45 questions each. The cumulative final exam has 70 questions (50 from unit 3, 10 from unit 1 and 10 from unit 2). These multiple-choice questions have responses a-e. There are no diagrams or other images in the exams.

The University is committed to providing a reliable online course system to all users. However, in the event of any unexpected server outage or any unusual technical difficulty which prevents you from completing a time sensitive assessment activity, I will extend the time windows and provide an appropriate accommodation based on the situation. Students should immediately report any problems to me, and also contact the UNT Student Help Desk: helpdesk@unt.edu or 940.565.2324 and obtain a ticket number. We will work to resolve any issues at the earliest possible time.

Study Tips and Other Suggestions

- **Speech science is hard for some students.** Do not be surprised if you need to study a lot harder for this course than for some others you have previously taken. I want you to succeed in this class
and I’m here to help! Don’t be shy about asking for clarification if some of the concepts are difficult for you.

- A good way for you to check that you really understand a concept is to try explaining what you have learned to someone outside of this class. If you can confidently explain the concepts covered in the lectures, you will probably do very well on the exams. But if you find yourself struggling to get your mind around a particular idea, please take the time to go over the lecture again as many times as needed, and really think it through carefully.

- Studies have shown that retrieval is the key to long-term learning. This means that it is usually more productive to practice recalling the information by quizzing yourself than trying to put it into your mind over and over. By testing yourself regularly you’ll be able to get the content to stick much better than spending a long time just before the exam just going over the lectures.

- The unit exams will be **multiple choice** tests, based entirely on the audiovisual lecture materials and content from the software projects, with no questions drawn solely from the text or other readings. So you don’t need to memorize the text and assigned readings but instead you need to re-watch the lectures and go over the lab assignments carefully. These unit exams are all **closed-book, no-notes** tests, so everything you need for the exam must be in your head.

- Extra Credit for Course Evaluations: At the end of the semester you will have an opportunity to give us feedback regarding this course. Your comments will be very helpful and I will go through them carefully. As a small incentive, in this class you will receive 0.5% added to your final semester grade for completing a course evaluation at the end of the semester, IF at least 70% of the class completes the anonymous course evaluation. Otherwise, no extra points will be given. You will receive additional information via email from the university as end of the semester approaches.

**TECHNICAL REQUIREMENTS/ASSISTANCE**

UIT Help Desk: [http://www.unt.edu/helpdesk/index.htm](http://www.unt.edu/helpdesk/index.htm)

The University of North Texas provides student technical support in the use of Canvas and supported resources. The student help desk may be reached at:

Email: [helpdesk@unt.edu](mailto:helpdesk@unt.edu)

Phone: 940.565-2324

In Person: Sage Hall, Room 130

Hours are:

- Monday-Thursday 8am-midnight
- Friday 8am-8pm
- Saturday 9am-5pm
- Sunday 8am-midnight
- Canvas technical requirements: [https://clear.unt.edu/supported-technologies/canvas/requirements](https://clear.unt.edu/supported-technologies/canvas/requirements)

**Minimum Technical Skills and Resources Needed**

- Ability to navigate the Canvas learning management system
- Ability to send emails with attachments, create and submit files in commonly used word processing program formats
• Please see the course “Welcome” page for details on software that will be required for this course.

Student Academic Support Services
• Code of Student Conduct: provides Code of Student Conduct along with other useful links
• Office of Disability Access: exists to prevent discrimination based on disability and to help students reach a higher level of independence
• Counseling and Testing Services: provides counseling services to the UNT community, as well as testing services; such as admissions testing, computer-based testing, career testing, and other tests
• UNT Libraries
• UNT Learning Center: provides a variety of services, including tutoring, to enhance the student academic experience
• UNT Writing Center: offers free writing tutoring to all UNT students, undergraduate and graduate, including online tutoring
• Succeed at UNT: information regarding how to be a successful student at UNT

COMMUNICATING WITH YOUR INSTRUCTOR
Both canvas and email will be used to communicate directly with students. Email is the preferred method for contacting your professor, and you can generally expect a response within 48 hours. Grades from assignments and tests will be posted as soon as possible and you can generally expect feedback within two weeks.

ASSESSMENT & GRADING

<table>
<thead>
<tr>
<th>Overview of Course Assessments</th>
<th>Points</th>
<th>Due Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open-book quizzes (7 in total)</td>
<td>100 per quiz for a total of 700 points</td>
<td>Quizzes will always be due on Saturday evening at 11.59pm on the week that the content is posted.</td>
</tr>
<tr>
<td>Class Projects (8 in total)</td>
<td>100 per project for a total of 800 points</td>
<td>Projects will always be due on Saturday evening at 11.59pm on the week that the content is posted.</td>
</tr>
<tr>
<td>Exam 1</td>
<td>900 points</td>
<td>9/26, 11.59pm</td>
</tr>
<tr>
<td>Exam 2</td>
<td>900 points</td>
<td>10/31, 11.59pm</td>
</tr>
<tr>
<td>Exam 3</td>
<td>1400 points</td>
<td>12/5, 11.59pm</td>
</tr>
</tbody>
</table>

A 100% - 93%
COURSE POLICIES:

Deadlines

Deadlines for quiz, assignment, and exam submission will be located in your weekly course content page and under the Syllabus link on the left of the home page. Make sure to check your calendar weekly so you don’t miss a deadline. I have set (almost) all deadlines to 11:59pm on the Saturday of the week content is covered (there is an exception for the week of thanksgiving). Please allow yourself plenty of time to deal with any computer problems or unforeseen difficulties – running up against a deadline puts you at risk, so don’t wait until the last minute!

Communication

All communication will be disseminated from Canvas. I will use Announcements in Canvas to communicate high priority and timely information. If you miss an announcement, check your notification preferences in Canvas. You can change settings to receive Announcements and Conversation Messages ASAP by email, cell phone, or other social networking services of your choice.

Instructor Feedback/Communication

Your teaching assistant will provide assignment feedback through comments and personal conversations through Canvas. I will be reading the Discussion Boards and replying to messages occasionally. You will receive specific feedback on your Assignments in the form of text comments appended to your electronic submissions.

Student Feedback/Communication

I welcome all feedback on the course. My preferred method of communication with individual students is via Canvas Inbox/Conversations. I will respond to email within two week days (Monday – Friday). If you experience a legitimate medical emergency that will prevent you from completing required coursework on time, I expect you to communicate with me at the earliest reasonable opportunity. Canvas will track communication between students and teachers providing date and time stamps. Please state the nature of the emergency, and when you expect to turn in the assignment.

Late Work

Late work due to illness and emergencies will be accepted. However, extensions should always be requested prior to the due date. The due date and time associated with each quiz, exam, and
assignment are stated clearly in Canvas. Additional reminders will be sent via Canvas announcements. Any projects turned in late without an extension will be subject to a 5% per day grade reduction.

Office Hours

Individual meetings can be requested via email. Please contact me to arrange a time. Open office hours will be offered prior to exams, where any student can drop by. These will typically be on the Wednesday before the exam from 10 to 11am. I will post a Canvas announcement prior to these meetings.

**CALENDAR**

*Include an outline of all due dates for the course.*

<table>
<thead>
<tr>
<th>Date</th>
<th>Course Content</th>
<th>Activities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Week 1</td>
<td>Introduction to Sound and its Physical Properties</td>
<td>Introduce yourself!</td>
</tr>
<tr>
<td>Week 2</td>
<td>Digital Systems</td>
<td>Quiz 1, Project 1</td>
</tr>
<tr>
<td>Week 3</td>
<td>Visualizing Speech + Acoustic Analysis</td>
<td>Quiz 2, Project 2</td>
</tr>
<tr>
<td>Week 4</td>
<td>Vocal fold movement</td>
<td>Quiz 3, Project 3</td>
</tr>
<tr>
<td>Week 5</td>
<td>Review fold movement</td>
<td>Exam 1</td>
</tr>
<tr>
<td>Week 6</td>
<td>Aerodynamics</td>
<td>No activities due this week</td>
</tr>
<tr>
<td>Week 7</td>
<td>Measuring fundamental frequency</td>
<td>Project 4</td>
</tr>
<tr>
<td>Week 8</td>
<td>Source/filter &amp; vowels</td>
<td>Quiz 4, Project 5</td>
</tr>
<tr>
<td>Week 9</td>
<td>Consonants</td>
<td>Quiz 5, Project 6</td>
</tr>
<tr>
<td>Week 10</td>
<td>Review Week</td>
<td>Exam 2</td>
</tr>
<tr>
<td>Week 11</td>
<td>Prosody + velopharyngeal function</td>
<td>Project 7</td>
</tr>
<tr>
<td>Week 12</td>
<td>Theories of speech production and perception</td>
<td>Quiz 6</td>
</tr>
<tr>
<td>Week 13</td>
<td>Psychoacoustics: loudness and pitch</td>
<td>Project 8</td>
</tr>
<tr>
<td>Week 14</td>
<td>Psychoacoustics: loudness and pitch</td>
<td>Quiz 7 (due following Monday due to Thanksgiving)</td>
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<tr>
<td>Week 15</td>
<td>Review Week</td>
<td>Exam 3</td>
</tr>
</tbody>
</table>
UNT POLICIES

Academic Integrity Policy
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 Policy
UNT makes reasonable academic accommodation for students with disabilities. Students seeking accommodation must first register with the Office of Disability Access (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 Canvas for contingency plans for covering course materials.

Retention of Student Records
Student records pertaining to this course are maintained in a secure location by the instructor of record. All records such as exams, answer sheets (with keys), and written papers submitted during the duration of the course are kept for at least one calendar year after course completion. Course work completed via the Canvas online system, including grading information and comments, is also stored in a safe electronic environment for one year. Students have the right to view their individual record; however, information about student’s records will not be divulged to other individuals without proper written consent. Students are encouraged to review the Public Information Policy and the Family Educational Rights and Privacy Act (FERPA) laws and the University’s policy. See UNT Policy 10.10, Records Management and Retention for additional information.

Acceptable Student Behavior
Student behavior that interferes with an instructor’s ability to conduct a class or other students’ opportunity to learn is unacceptable and disruptive and will not be tolerated in any instructional forum.
at UNT. Students engaging in unacceptable behavior will be directed to leave the classroom and the instructor may refer the student to the Dean of Students to consider whether the student's conduct violated the Code of Student Conduct. The University's expectations for student conduct apply to all instructional forums, including University and electronic classroom, labs, discussion groups, field trips, etc. The Code of Student Conduct can be found at deanofstudents.unt.edu/conduct.

Access to Information - Eagle Connect

Students’ access point for business and academic services at UNT is located at: my.unt.edu. All official communication from the University will be delivered to a student’s Eagle Connect account. For more information, please visit the website that explains Eagle Connect and how to forward e-mail: eagleconnect.unt.edu/

Student Evaluation Administration Dates

Student feedback is important and an essential part of participation in this course. The student evaluation of instruction is a requirement for all organized classes at UNT. The survey will be made available during weeks 13, 14 and 15 of the Fall semester to provide students with an opportunity to evaluate how this course is taught. Students will receive an email from "UNT SPOT Course Evaluations via IASystem Notification" (no-reply@iasystem.org) with the survey link. Students should look for the email in their UNT email inbox. Simply click on the link and complete the survey. Once students complete the survey they will receive a confirmation email that the survey has been submitted. For additional information, please visit the SPOT website at http://spot.unt.edu/ or email spot@unt.edu.

Sexual Assault Prevention

UNT is committed to providing a safe learning environment free of all forms of sexual misconduct, including sexual harassment sexual assault, domestic violence, dating violence, and stalking. Federal laws (Title IX and the Violence Against Women Act) and UNT policies prohibit discrimination on the basis of sex, and therefore prohibit sexual misconduct. If you or someone you know is experiencing sexual harassment, relationship violence, stalking, and/or sexual assault, there are campus resources available to provide support and assistance. UNT’s Survivor Advocates can assist a student who has been impacted by violence by filing protective orders, completing crime victim’s compensation applications, contacting professors for absences related to an assault, working with housing to facilitate a room change where appropriate, and connecting students to other resources available both on and off campus. The Survivor Advocates can be reached at SurvivorAdvocate@unt.edu or by calling the Dean of Students Office at 940-565-2648. Additionally, alleged sexual misconduct can be non-confidentially reported to the Title IX Coordinator at oeo@unt.edu or at (940) 565 2759.