

Course Syllabus – Fall 2021

Course Information

<i>Course Prefix, Number</i>	SPAU 3341
<i>Course Title</i>	Audiology
<i>Term</i>	Fall 2021
<i>Days & Times</i>	Tuesday/Thursday 8:30-9:45 a.m.
<i>Location</i>	JSOM 2.106

Professor Contact Information

<i>Professor</i>	Andrea Warner-Czyz
<i>Office Phone</i>	972.883.3618 or Microsoft Teams
<i>Email Address</i>	warnerczyz@utdallas.edu
<i>Office Location</i>	Callier Richardson (CR) 1.510
<i>Office Hours</i>	Tuesday 12:00-1:00 p.m. or by appointment
<i>Other Information</i>	We can meet in person or via Microsoft Teams

Teaching Assistant Contact Information

<i>Teaching Assistant</i>	Conner Jansen
<i>Office Phone</i>	(Microsoft Teams)
<i>Email Address</i>	conner.jansen@utdallas.edu
<i>Office Location</i>	Callier Richardson Addition (CRA) 12.119D, Desk E
<i>Office Hours</i>	Thursday 3:00-4:00 p.m. or by appointment
<i>Other Information</i>	We can meet in person or via Microsoft Teams

Course Pre-requisites, Co-requisites, and/or Other Restrictions

SPAU 3304 and SPA 3344 (or instructor consent required)

Course Description

This course has been designed to ensure that students demonstrate required knowledge and skill as outlined in the Standards and Implementation Guidelines for the Certificate of Clinical Competence in Audiology. We will cover instrumentation and calibration standards for audiology practice; the development and application of standard diagnostic audiology procedures; and administration and interpretation of standard audiometric tests.

Student Learning Objectives/Outcomes (Note; ASHA guidelines in parentheses)

After completing this course, students should be able to:

1. Complete pure-tone audiograms on volunteer subjects (Standard IV- B2, B14, C1, C2, C3, C4, D1, D3, D4, D6, D7)
2. Complete audiometric audiograms on a computer simulator (Standard IV- B2, B14, C1, C2, C3, C4, D6, D7)
3. Interpret clinical audiograms from cases (Standard IV- B2, B3, B4, B5, B7, B8, B10, B12, B16, C2, C3, C4, D2, D6, D14, D16)
4. Interpret tympanograms from cases (Standard IV- B2, B4, B5, B8, B12, B14, B16, C2, C3, D2, D4, D6, D14, D16)

5. Identify and describe anatomic sites along the auditory system (Standard IV- B2, B4, B8)
6. Interpret impact of pathology on auditory system (Standard IV- B2, B4, B5, B7, B8, B10, B12, B16, C2, C3, D2, D6, D14, D16)
7. Describe and apply ethical considerations and professional issues and their impact on assessment and treatment of individuals with hearing deficits (Standard IV- D4, D5, D6, D7, D8, D12).

Required Textbooks and Materials

Required Texts

Required and supplemental readings will be posted online at eLearning or made available for students online. The readings are meant to supplement and expand upon information presented in class.

Required Materials

Martin, F.N., & Clark, J.G. (2019). *Introduction to Audiology: 13th edition*. Pearson: Boston. ISBN: 0134694902 or 9780134694900.

Assignments & Academic Calendar

Topics, Reading Assignments, Due Dates, Exam Dates

These descriptions and timelines are subject to change at the discretion of the Professor.

WEEK/ DATES	TOPIC/LECTURE	READING	ASSESSMENT / ACTIVITY	DUE DATE
1 08/23- 08/27	Sound and measurement	Kushla, Ch. 2 (pp. 9-18); Martin & Clark. Ch. 2 (pp. 40-55)	Quiz 1 Lab 1	08/26 08/31
	The nature of hearing	Martin & Clark, Ch. 3 (pp. 58-73)	Quiz 2	08/29
2 08/30 - 09/03	Pure-tone audiometry	Martin & Clark, Ch. 3 (pp. 73-100)	Lab 2	09/08
	Speech audiometry	Martin & Clark, Ch. 4		
3 09/06- 09/10	Cross-hearing and masking	Martin & Clark, Ch. 5; watch video	Quiz 3	09/12
	Review			
4 09/13- 09/17	Exam 1	(See above)	Exam 1	09/14
	The outer ear	Martin & Clark, Ch. 8	In-class activity; Lab 3	09/23

WEEK/ DATES	TOPIC/LECTURE	READING	ASSESSMENT / ACTIVITY	DUE DATE
5 09/20- 09/24	The middle ear Tympanometry	Martin & Clark, Ch. 9 Martin & Clark, Ch. 6 (pp. 160-170)	Lab 4	09/30
6 09/27- 10/01	Review Exam 2		Exam 2	09/30
7 10/04- 10/08	The inner ear The auditory nerve and central auditory nervous system	Martin & Clark, Ch. 10 Martin & Clark, Ch. 11	Quiz 4	10/10
8 10/11- 10/15	Electrophysiology (both days)	Martin & Clark, Ch. 6 (pp. 171-194); Emanuel (2009) (link to Audiology online)	Lab 5	10/21
9 10/18- 10/22	Review Exam 3		Exam 3	10/28
10 10/25- 10/29	Pediatric audiology Adult/geriatric audiology	Martin & Clark, Ch. 7 Souza (2014)	In-class activity	
11 11/01- 11/05	Nonorganic hearing loss and tinnitus Beyond hearing	Martin & Clark, Ch. 12 Martin & Clark, Ch. 13; ASHA Practice portal for CAPD	Quiz 5	11/07
12 11/08- 11/12	Review Exam 4	(See above)	Exam 4	11/11
13 11/15- 11/19	Auditory technology (both days)	Martin & Clark, Ch. 14	In-class activity	

WEEK/ DATES	TOPIC/LECTURE	READING	ASSESSMENT / ACTIVITY	DUE DATE
14 11/22- 11/26	Pediatric habilitation No class 11/25 (Thanksgiving)	Martin & Clark, Ch. 15	Lab 6	11/30
15 11/29- 12/03	Adult rehabilitation Hot topics in audiology	Moscarella & DeConde Johnson, Ch. 15 (TBD)	Quiz 6 In-class activity	12/02
16 12/06-12/10	Review No class 12/09			
16 12/09-12/15	Final exam	(See above)	Final exam	TBD

Classroom Conduct Requirements Related to Public Health Measures

UT Dallas will follow the public health and safety guidelines put forth by the Centers for Disease Control and Prevention (CDC), the Texas Department of State Health Services (DSHS), and local public health agencies that are in effect at that time during the Fall 2021 semester to the extent allowed by state governance. Texas Governor Greg Abbott's Executive Order [GA-38](#) prohibits us from mandating vaccines and face coverings for UT Dallas employees, students, and members of the public on campus. However, we strongly encourage all Comets to get vaccinated and wear face coverings as recommended by the CDC. Check the [Comets United: Latest Updates webpage](#) for the latest guidance on the University's public health measures. Comets are expected to carry out [Student Safety](#) protocols in adherence to the Comet Commitment. Unvaccinated Comets will be expected to complete the [Required Daily Health Screening](#). Those students who do not comply will be referred to the Office of Community Standards and Conduct for disciplinary action under the [Student Code of Conduct – UTSP5003](#). For details, please see section below on **COVID-19 Guidelines and Resources**.

Grading Policy

Quizzes and knowledge checks (60 points)

You will have 3 days to complete the quizzes (except for Quiz 1, the syllabus quiz).

1. *Quiz 1 (5 points)* will reflect your knowledge of the syllabus based on reading through it carefully. You will not get access to course material until you score 100% on this syllabus quiz.
2. *Quiz 2 (15 points)* will consist of short answer, fill in the blank, true/false, matching and/or multiple-choice questions. Topics will include sound and its measurement and basic anatomy, physiology, and properties of the auditory system.

3. *Quizzes 3-6 (10 points each)* will consist of short answer, fill in the blank, true/false, matching and/or multiple-choice questions. These knowledge checks cover topics in the lecture and readings (e.g., cross-hearing, central auditory nervous system).

Exams (275 points)

Each exam portal will be open for 24 hours so that you can schedule taking the exam at your leisure. However, you will have a limited period of time to complete the exam.

1. *Exam 1 (50 points)* will consist of short answer, fill in the blank, true/false, matching and/or multiple-choice questions, and basic calculations. Content will include basic audiology and basic hearing assessment (e.g., pure-tone audiometry, speech audiometry, cross-hearing, masking).
2. *Exam 2 (50 points)* will consist of short answer, fill in the blank, true/false, matching, multiple choice, and/or case study questions. Content will cover anatomy, physiology, and disorders in the outer and middle ear; and practices/assessments related to diagnosis of conductive hearing loss (e.g., pure-tone audiometry, otoscopy, acoustic immittance).
3. *Exam 3 (50 points)* will consist of short answer, fill in the blank, true/false, matching, multiple choice, and/or case study questions. Content will cover anatomy, physiology, and disorders in the inner ear and central auditory nervous system; and assessments related to diagnosis of sensorineural hearing loss (e.g., pure-tone audiometry, speech audiometry, acoustic immittance, electrophysiology, otoacoustic emissions).
4. *Exam 4 (50 points)* will consist of short answer, fill in the blank, true/false, matching, multiple choice, and/or case study questions. Content will include anatomy, physiology, disorders, and assessments related to special populations (e.g., pediatrics, geriatrics, central auditory processing disorder, nonorganic hearing loss, vestibular/balance deficits, and tinnitus).
5. *Final exam (75 points)* will consist of short answer, fill in the blank, true/false, matching, multiple choice, and/or case study questions. Content will include treatment, auditory technology, and (re)habilitation for auditory and vestibular deficits.

Labs (90 points, 15 points each)

You will have one week from the date of assignment to complete each lab.

1. How loud is your world? – due 08/31
2. Pure-tone audiometry – due 09/08
3. Otoscopy – due 09/23
4. Tympanometry – due 09/30
5. Acoustic reflexes – due 10/21
6. Reflection paper – due 11/30

Team project (30 points)

You will be assigned to a group of 3-5 students who will work as a team to complete the project. Each team will select one audiology-related condition (i.e., auditory condition in the outer, middle, or inner ear), approved by the instructor, to research as part of the team project. The team will compile pertinent information about this auditory condition (e.g., symptoms, images, populations affected, effect on the auditory and/or vestibular system, test results, treatment) on Google slides to share with the class. These team projects will serve as a take-home guide to study for this course and beyond. Due dates will vary based on the conditions because we will tie conditions to topics covered in course modules (e.g., otitis media during the module focused on conductive hearing loss). Details on the team project, including instructions, expectations, a rubric, and progressive deadlines, will be provided in class and on eLearning.

Real-world audiology project (20 points)

This project lets you explore how audiology intersects with the real world. In your assigned week, you will find one current event related to audiology, write a brief summary of this event, and post the summary and a link to the current event story in the discussion board on eLearning (10 points). The discussion board provides a place to respond, comment, and make connections – which forms the second part of this assignment. We expect you to read and reply to two different current events posted by one of your classmates (5 points each). Before you can post to the discussion board, you must sign and submit the discussion board guideline agreement for thoughtful and considerate posting so we can have a safe environment for all students.

Class participation (25 points)

Periodically, you will be asked to complete “**minute papers**,” or papers literally written in 1-2 minutes to allow you to reflect on material covered in the lecture and readings. This could include the most important item that you have learned, a summary of the lecture, or the “muddiest point” (the most unclear section of the lecture or topic), etc. You will submit these papers on eLearning. They will be graded depending upon the thought and effort put into the responses. For example, a 0 would reflect lack of class attendance. A score of 3 would indicate basic thought processes, such as reciting facts or lists. A score of 5 would suggest higher cognition levels, such as mentioning the underlying organization of the material or considering application of the topic.

Minimum percent required ¹	Number of points required ²	Grade	Grade points
94	470	A	4.00
90	450	A-	3.67
87	435	B+	3.33
84	420	B	3.00
80	400	B-	2.67
77	385	C+	2.33
74	370	C	2.00
70	350	C-	1.67
67	335	D+	1.33
64	320	D	1.00
60	300	D-	0.67
<60	<300	E	0
		WF	0
		I	0
		NG	0

A total of 500 points are possible.

Requirements for each letter grade (by both minimum percent and minimum number of points) are indicated in the table to the left.

To ensure fairness, all values are absolute.

¹ Minimum percentage required to earn a given letter grade is based on the default template grading scale set up by the University in the eLearning system.

² This is the minimum number of points that must be earned to receive a given letter grade. There is not rounding to the next higher point or next higher percent.

Course Policies

Make-up exams

Make-up assignments or additional assignments for extra credit will only be given in extenuating circumstances.

Late Work

I highly encourage you to know the due dates of each assignment so you can plan to complete each assignment to the best of your ability without rushing or worrying about incurring late submission penalties. My policy on late work varies by assignment type:

1. I can offer you a one-time one-day grace period on one individual assignment (i.e., quiz, knowledge check, lab) before incurring a 20% penalty on said assignment. If you are going to use the grace period (you can only use it once during the semester), please let me know before the due date. Otherwise, late work for these individual assignments will incur a 20% penalty per day and work submitted more than five days after the due date will not be accepted.
2. The exams and the team project do not have a grace period because I need to grade them in a short period of time before grades are due to the university.

The university has a list of accepted mitigating circumstances but as indicated in the previous section, I request that you communicate with me if you need to more time on an assignment so we can figure out a plan.

Class Materials

The instructor may provide class materials that will be made available to all students registered for this class as they are intended to supplement the classroom experience. These materials may be downloaded during the course; however, these materials are for registered students' use only. Classroom materials may not be reproduced or shared with those not in class or uploaded to other online environments except to implement an approved Office of Student AccessAbility accommodation. Failure to comply with these University requirements is a violation of the Student Code of Conduct.

Class Attendance

The University's attendance policy requirement is that individual faculty set their course attendance requirements. Regular and punctual class attendance is expected. Students who fail to attend class regularly are inviting scholastic difficulty. In some courses, instructors may have special attendance requirements; these should be made known to students during the first week of classes. Faculty have the discretion to set an attendance policy for their in-person meetings, but the absences due to COVID-19 cannot be counted against a quarantined student.

Class Participation

Regular class participation is expected regardless of course modality. Students who fail to participate in class regularly are inviting scholastic difficulty. A portion of the grade for this course is directly tied to your participation in this class. It also includes engaging in group or other activities during class that solicit your feedback on homework assignments, readings, or materials covered in the lectures (and/or labs). Class participation is documented by faculty. Successful participation is defined as consistently adhering to University requirements, as presented in this syllabus. Failure to comply with these University requirements is a violation of the Student Code of Conduct.

Class Recordings

Students are expected to follow appropriate University policies and maintain the security of passwords used to access recorded lectures. Unless the Office of Student AccessAbility has approved the student to record the instruction, students are expressly prohibited from recording any part of this course. Recordings may not be published, reproduced, or shared with those not in the class, or uploaded to other online environments except to implement an approved Office of Student AccessAbility accommodation. Failure to comply with these University requirements is a violation of the Student Code of Conduct.

The instructor may record meetings of this course. These recordings will be made available to all students registered for this class if the intent is to supplement the classroom experience. If the instructor or a UTD school/department/office plans any other uses for the recordings, consent of the students identifiable in the recordings is required prior to such use unless an exception is allowed by law.

Classroom Citizenship

Digital etiquette. Please turn off ringtones and other audible alerts on cell phones before class begins. Students may use technology during class to take notes or accomplish tasks pertaining to class discussion. However, abuse of technology during class time (e.g., texting, checking email, social media, etc.) is unacceptable.

I value the perspectives of individuals from all backgrounds, reflecting the diversity of our students. I broadly define diversity to include race, gender identity, national origin, ethnicity, religion, social class, age, sexual orientation, political background, and physical and learning ability. I strive to make this classroom an inclusive environment. If you see ways I can improve, please let me know.

Respect – your instructional team affirms our commitment to the following, and expect the same from you:

- Respect dignity and essential work of all individuals
- Promote a culture of respect in the university community
- Respect privacy, property and freedom of others
- Reject bigotry, discrimination, violence of any kind
- Practice personal and academic integrity and expect it of others
- Promote diversity of opinions, ideas, and backgrounds, which is the livelihood of the university.

COVID-19 Guidelines and Resources

Classroom Safety and COVID-19^[1]_{SEP} To help preserve the University's in-person learning environment, UT Dallas recommends the following:

Adhere to the University's [CDC Updated Guidelines](#) issued on July 30, 2021. All Comets are strongly encouraged to wear face coverings indoors regardless of vaccination status. Please note this represents a change in the [campus guidance](#) issued on May 20, 2021.

Accommodations for Students Who Miss Class for Reasons Unrelated to COVID-19

Individual faculty maintain their discretion on whether and how to accommodate student absences unrelated to COVID-19.

Accommodations for Students Who Must Isolate or Quarantine Due to COVID-19

To keep the UT Dallas community as safe as possible, the University requires students who test positive for COVID-19 or who are close contacts as determined by the campus contact tracing program to isolate or quarantine as applicable. Faculty will be notified by the Dean of Students' Office if a student in their class has been required to isolate (positive case) or quarantine (exposed). Faculty must make lectures available for those students during the period the students must isolate or quarantine. Faculty who need assistance with providing these students access to course content can contact the eLearning Team at elearning@utdallas.edu. Faculty have the discretion to set an attendance policy for their in-person meetings, but the absences due to COVID-19 cannot be counted against an isolated or quarantined student.

Verifying COVID-19 Isolations or Quarantines

Students need to self-report COVID-19 positive results or exposures via an [online form](#) so that university campus tracers can verify, record, and take necessary campus precautions. When faculty are notified by students rather than by the Dean of Students' Office that the students are isolating or quarantining, the faculty should remind students to self-report via the form; students should not attend class until cleared by campus tracers.

Vaccinations are widely available, free and not billed to health insurance. The vaccine will help protect against the transmission of the virus to others and reduce serious symptoms in those who are vaccinated. You are encouraged to [get a COVID-19 vaccine](#) and register your vaccination status through the [voluntary vaccine report form](#).

Proactive Community Testing remains an important part of the university's efforts to protect our community. Tests are fast and free. Please check the [Comets United](#) webpage for additional information.

[Student Safety](#) remains an important part of the UT Dallas' efforts to protect our community. All students will adhere to the Comet Commitment. Unvaccinated Comets will be expected to complete the mandatory [Required Daily Health Screening](#). Those students who do not comply will be referred to the Office of Community Standards and Conduct for disciplinary action under the [Student Code of Conduct – UTSP5003](#). All students are encouraged to read the [Recommendations for Students Returning to Campus](#) issued on August 2, 2021.

Visit [Comets United webpage](#) to obtain the latest information on the University's guidance and resources for campus health and safety.

[Previous Campus Communications](#): a list of university announcements made in 2020-2021.

[Registrar's Intranet](#): please log in with your UTD NetID and password to access this site. Information that faculty need about grading, scheduling, and other essential aspects of our responsibilities related to teaching are made available and updated regularly in the Registrar's Intranet. This source of information can only be accessed by logging in with your UTD NetID and password. Many important faculty questions are answered here, and this is information that faculty members are expected to know and understand.

[FERPA Guidelines](#): you will be asked to log in before you access the FERPA Guidelines webpage on the Registrar's Intranet. If faculty have additional questions about FERPA guidance, please contact the Office of the Registrar at records@utdallas.edu for the proper student consent forms and further instructions.

[Honorlock](#): Online proctoring tool will be available for fully online courses and for classes with enrolled international students who are not yet in the United States.

[UT System Resources for Creating Accessible Course Content](#): designed to assist faculty with developing course content

Student Resources

Students who have tested positive for COVID-19 or may have been exposed should not attend class in person and should instead follow required disclosure notifications as posted on the university's website (see "[What should I do if I become sick?](#)")

COVID-19 Resources

[Comets United webpage](#): check frequently

[FAQ](#): check out the FAQs and reach out to your instructor or academic advisor if answers are not included

[Student Resources](#): a variety of resources are available to help students to obtain counseling, health care, and academic support.

Comet Creed

This creed was voted on by the UT Dallas student body in 2014. It is a standard that Comets choose to live by and encourage others to do the same:

“As a Comet, I pledge honesty, integrity, and service in all that I do.”

Academic Support Resources

The information contained in the following link lists the University’s academic support resources for all students.

Please see <http://go.utdallas.edu/academic-support-resources>.

UT Dallas Syllabus Policies and Procedures

The information contained in the following link constitutes the University’s policies and procedures segment of the course syllabus. Please review the catalog sections regarding the [credit/no credit](#) or [pass/fail](#) grading option and withdrawal from class.

Please go to <http://go.utdallas.edu/syllabus-policies> for these policies.

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