

UT Tyler COMD 3341-Course Syllabus- Fall 2023

Course Information

<i>Course Number/Section</i>	COMD 3341
<i>Course Title</i>	<i>Introduction to Audiology</i>
<i>Term</i>	Fall, 2023
<i>Location</i>	Online- Canvas
<i>Time</i>	6:00 pm to 8:45 pm
<i>Type</i>	Synchronous Online Course

Professor Contact Information

<i>Professor</i>	Andrea Gohmert, Au D, CCC-A, ABAC, FNAP
<i>Office Phone</i>	972-883-3078
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<i>Online Office Hours</i>	Tuesdays 5:00 pm- 8:00 pm- Microsoft Teams- appointments r required

Course Description

This course is designed to introduce the broad field of audiology, a profession devoted to the diagnosis and treatment of hearing and balance disorders. It was designed to ensure that students demonstrate required knowledge of the auditory system's basic anatomy and physiology. 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.

Course Objectives/ASHA Learning Competencies:

The course objectives align with the American Speech-Language-Hearing Association (ASHA) guidelines for student learning objectives for the certificate of clinical competence in Audiology. References to the ASHA Guidelines are indicated via parentheses in the list below.

By the end of this course, students will be able to:

1. Define the profession and scope of practice of an audiologist as well as the various environments in which audiologists practice (Standard II A18, A19)
2. Define the properties of sound and how they are used to describe hearing ability. (Standard II-A4, A10)
3. Describe the basic anatomy and physiology of the auditory system. (Standard II A1)
4. Describe how disruptions to different sites along the auditory pathway can lead to hearing loss. (Standard II- B1, B2, B4, B5, B6, B9, C4,)
5. Describe the different types of hearing loss. (Standard II B1, C4, C10, C11)
6. Describe different tests that are used to assess auditory function. (Standard II – B2, B14, C1, C3, C4, C7, C8, C9, C10)
7. Be able to perform otoscopic inspection of the ear. (Standard C4)
8. Be able to perform a hearing screening and interpret results (Standard B6)
9. Understand the components of the audiometer and how to perform a pure tone audiogram. (Standard II- C8, C9, C10)
10. Describe the difference between air conduction and bone conduction hearing thresholds.
11. Explain the use of masking and why and when it is used. (Standard II- C8, C10)

12. Know and describe the various types of speech audiometry tests and the valuable information they provide in audiological evaluations. (Standard II- C9)
13. Describe the different portions of the immittance battery and the importance of the results in the audiological evaluation of hearing. (Standard II- C7)
14. Describe the various auditory evoked potentials and their common uses (Standard II C11, C16)
15. Describe otoacoustic emissions and how they are used clinically. (Standard II- C12)
16. Communicate the parts of the audiogram and explain results of audiometric testing to a layperson.
17. Describe the implications of hearing loss for different populations, including pediatrics and adults. (Standard II – D1, D2, D3, D4, D5, D6, D7, D8, D12)
18. Describe the basic rehabilitation options that are available to improve communication for individuals with hearing loss, including hearing aids, cochlear implants, assistive devices, and aural rehabilitation. (Standard II – D4, D4, D6, D7, D8, D12)

Required Textbooks and Materials

Stach, B. and Ramachandran, V., 2022. *Clinical Audiology: An Introduction*. 3rd ed. San Diego: Plural Publishing.

Simucase Semester Membership for lab assignments- <https://www.simucase.com/pricing>

Required Readings and Materials

<https://ezproxy.uttyler.edu/login?url=https://www.anatomy.tv>

There may be additional readings and materials available, and these will be posted via Canvas.

Technical Requirements

This will be an online synchronous course where attendance is required online in Canvas during the scheduled time for the course. You will need access to your own laptop and computer with audio and video options.

Communication

This course will use regular email to your UT Tyler email address for communication. Under normal circumstances, student emails will be answered within three business days.

Class Attendance/Participation

Regular and punctual class attendance is expected synchronously online to facilitate classroom discussion. Students who fail to participate in class regularly are inviting scholastic difficulty. Students who fail to attend 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 groups 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, and weekly attendance will be taken, and more than two absences will require additional make up work in consultation with the professor. Please notify the instructor when you plan on being absent and you are responsible for setting up meetings for make-up work as needed.

Course Schedule/Calendar

Week/Date	Topic	Reading	Assignments	Due Date
Week 1- 8/23	Course Introduction- Syllabus Review The Profession of Audiology The Basic Physics of Sound How We Hear	Course Syllabus Ch 1- pgs. 2-28 Ch.2-pgs. 31-44 Scope of Practice Documents Auditory Transduction	Reading Quiz 1- See Quiz in Canvas based on Ch. 2- pgs. 61-72 Ch. 3- pgs. 73-96 Ch. 6- pgs. 195-198	Reading Quiz 1 8/29/2023
Week 2- 8/30	Air Conduction Hearing Bone Conduction Hearing Cross Hearing	Ch. 2- pgs. 61-72 Ch. 3- pgs. 73-96 Ch. 6- pgs. 195-198	Lab 1- Anatomy.tv- Part 1 See instructions in Canvas https://ezproxy.uttyler.edu/login?url=https://www.anatomy.tv	Lab 1- 9/5/2023
Week 3- 9/6	Anatomy of the Outer Ear & Disorders of the Outer Ear Anatomy of the Middle Ear & Disorders of the Middle Ear	Ch. 2- pgs. 45-61 Ch. 3- pgs. 73-96 Ch. 4- pgs. 97-111	Lab 2- Anatomy.tv- Part II See instructions in Canvas https://ezproxy.uttyler.edu/login?url=https://www.anatomy.tv	Lab 2- 9/12/2023
Week 4- 9/13	Anatomy of the Inner Ear & Disorders of the Inner Ear Introduction to Audiologic Diagnosis Case History/Otoscopy	Ch. 4- pgs. 112- 137 Ch 5- pgs. 145-169	Lab 3- Otoscopy Assigned in Simucase	Lab 3- 9/26/2023
Week 5- 9/20	Pure Tone Audiometry Speech Audiometry When To Mask?	Ch. 6- pgs. 171-223 Ch.7- pgs. 201-223	Reading Quiz 2- See Quiz in Canvas based on Ch. 8- pgs.227-253 Ch. 9- pgs. 255-281	Reading Quiz 2 9/26/2023
Week 6- 9/27	Immittance & Physiologic Measures	Ch. 8- pgs.227-253 Ch. 9- pgs. 255-281		

Week 7- 10/4	Test Battery Approach Hearing Screenings	Ch. 10- pgs. 284-343	Lab 4- Hearing Screenings Simucase Audiolab	Lab 4- 10/17/2023
Week 8- 10/11	Communicating Audiometric Results	Ch. 11- pgs. 346-378	Review for Exam 2	
Week 9- 10/18	Midterm Exam		Reading Quiz 3- See quiz in Canvas based on Ch. 12- pgs. 383-404 Ch. 13- pgs. 405- 434	Reading Quiz 3 10/24/ 2023
Week 10- 10/25	Introduction to Audiologic Treatment Hearing Loss Treatment- Hearing Aids	Ch. 12- pgs. 383-404 Ch. 13- pgs. 405- 434		
Week 11- 11/01	Audiologic Treatment- The Hearing Aid Process	Ch. 16- pgs. 469- 490	Reading Quiz 4- See Quiz in Canvas based on Ch. 14- pgs. 435- 448 Ch 15- pgs. 449-468	Reading Quiz 4 11/7/2023
Week 12- 11/8	Implantable Hearing Technology & Hearing Assistive Technology	Ch. 14- pgs. 435- 448 Ch 15- pgs. 449-468		
Week 13- 11/15	Different Treatment Approaches for Different Populations Newborn Hearing Screenings Aging and Cognition	Ch. 17- pgs. 493-521	Reading Quiz 5 See Quiz in Canvas based on Ch 18- pgs. 527- 557	Reading Quiz 5 11/28/2023
Week 14- 11/22	Fall Break- No class			
Week 15- 11/29	Anatomy of the Vestibular System Vestibular & Balance Assessment	Ch 18- pgs. 527- 557	Review for Cummulative Final Exam	

Week 16- 12/6	Final Exam	Final Exam		
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Assignments

- 1. Attendance Participation-** Since attendance and participation are important for understanding and successfully completing this course. Points for weekly attendance and active participation in class will be given. Total Possible points= **5 pts per week for attendance and 5 points for participation= 10 pts per week possible.** (Learning Outcomes 1-18)
- 2. Reading Quizzes:** There will be five scheduled reading quizzes completed at home and will involve answering discussion questions after reading the text. Each quiz is worth **100 pts.** The lowest Quiz grade will be dropped. (Learning Outcomes 1-13)
- 3. Lab Assignments-** There are **four** lab assignments that will be completed in Simucase or Simucase Audio Lab or online in Anatomy. Tv. These will be assigned to you in Simucase but your instructor will go over each of these in class and how to access the assignments. You must have semester membership in Simucase to access these labs. Each lab is worth **100 pts.** (Learning Outcomes 7-11)
- 4. Midterm Exam-** There will be a midterm exam in this course that will be multiple choice, fill in the blank and short answer. This exam is worth **250 pts.** (Learning Outcomes 1-13)
- 5. Final Exam: There will be a comprehensive cumulative exam based on a case.** The learner is expected to analyze otoscopy, immittance, and audiometric measures. The learner will need to classify the type and degree of hearing loss based on the results and determine the basic anatomy that may be involved in the hearing loss. In addition, the learner will need to determine the implications of hearing loss on communication abilities and make some treatment or referral suggestions. The Final Exam is worth **300 points** (Learning Outcomes 1-18).
- 6. Extra Credit-** Additional credit can be added to the Final Exam if you complete five pure tone audiograms in Simucase Audiolab. More information on this will be given in class. (**25 pts**)

Grading Policy

Quizzes- 100 points each= 400 pts (lowest Quiz dropped)

Attendance/Participation- 10 pts each=150 pts

Lab Assignments-100 pts each= 400 pts

Midterm Exam- 250 pts

Final Exam-300 pts

Total Available Points= 1500 pts

The final grade will be based on the following scale:

Points	Grading Scale
1350-1500 points	A= 90- 100%
1200- 1349 points	B= 80- 89.9%
1050- 1199 points	C= 70-79.9%
900- 1049 points	D= 60- 69.9%
< 900 points	F= < 60%

UNIVERSITY POLICIES

Fall 2023 COMD 3341

- **Withdrawing from Class** - Students are allowed to [withdraw](#) (drop) from a course through the University's [Withdrawal Portal](#). Texas law prohibits students who began college for the first time in Fall 2007 or thereafter from dropping more than six courses during their entire undergraduate career. The number includes courses dropped at other 2-year or 4-year Texas public colleges and universities. Make sure to consider the impact withdrawing from any course has on your academic progress as well as the financial implications. We encourage you to consult your advisor(s) and financial aid for additional guidance. CAUTION #1: Withdrawing before census day does not mean students receive a full refund. Please see the [Tuition and Fee Refund Schedule](#). CAUTION #2: All international students must check with the [Office of International Programs](#) before withdrawing. All international students are required to enroll full-time for fall and spring terms.
- **Final Exam Policy:** Final examinations are administered as scheduled. If unusual circumstances require that special arrangements be made for an individual student or class, the dean of the appropriate college, after consultation with the faculty member involved, may authorize an exception to the schedule. Faculty members are required to maintain student final examination papers for a minimum of three months following the examination date.
- **Incomplete Grade Policy:** If a student, because of extenuating circumstances, is unable to complete course requirements by the end of the semester, then the instructor may recommend an Incomplete (I) for the course. The "I" may be assigned in lieu of a grade only when all of the following conditions are met: (a) the student has been making satisfactory progress in the course; (b) the student is unable to complete all course work or final exam due to unusual circumstances that are beyond personal control and are acceptable to the instructor; and (c) the student presents these reasons prior to the time that the final grade roster is due. The semester credit hours for an Incomplete will not be used to calculate the grade point average for a student.
- The student and the instructor must submit an Incomplete Form detailing the work required and the time by which the work must be completed to their respective department chair or college dean for approval. The time limit established must not exceed one year. Should the student fail to complete the work for the course within the time limit, the instructor may assign zeros to the unfinished work, compute the course average for the student, and assign the appropriate grade. If a grade has not been assigned within one year, then the Incomplete will be changed to an F or to NC, if the course was initially taken under the CR/NC grading basis.
- **Grade Appeal Policy:** - UT Tyler's Grade Appeal policy requires the completion of a Grade Appeal form for this action to take place. The grade appeal begins with the instructor of the course. If a student does not agree with the instructor's decision, they may move the appeal to the department chair/school director for that course. If the student is still dissatisfied with the decision of the chair/director, the appeal moves to the Dean of the College offering that course, who has the final decision. Grade appeals must be initiated within sixty (60) days from the date of receiving the final course grade. The Grade Appeal form is found in the [Registrar's Form Library](#).
- **Disability/Accessibility Services:** In accordance with Section 504 of the Rehabilitation Act, Americans with Disabilities Act (ADA) and the ADA Amendments Act (ADAAA), The University of Texas at Tyler offers accommodations to students with learning, physical and/or psychological disabilities. If a student has a disability, including a non-visible diagnosis such as a learning disorder, chronic illness, TBI, PTSD, ADHD, or a history of modifications or accommodations in a previous educational environment, the student is encouraged to visit <https://hood.accessiblelearning.com/UTTyler> and fill out the New Student application. The Student Accessibility and Resources (SAR) office will contact the student when the application has been

submitted and schedule an appointment with the Assistant Director Student Accessibility and Resources/ADA Coordinator. For more information, including filling out an application for services, please visit the SAR webpage at <http://www.uttyler.edu/disabilityservices>, the SAR office located in the University Center, # 3150 or call 903.566.7079.”

- **Military Affiliated Students:** UT Tyler honors the service and sacrifices of our military-affiliated students. If you are a student who is a veteran, on active duty, in the reserves or National Guard, or a military spouse or dependent, please stay in contact with your faculty member if any aspect of your present or prior service or family situation makes it difficult for you to fulfill the requirements of a course or creates disruption in your academic progress. It is important to make your faculty members aware of any complications as far in advance as possible. Your faculty member is willing to work with you and, if needed, put you in contact with university staff who are trained to assist you. Campus resources for military-affiliated students are in the [Military and Veterans Success Center \(MVSC\)](#). The MVSC can be reached at MVSC@uttyler.edu or via phone at 903.565.5972.
- **Academic Honesty and Academic Misconduct:** The UT Tyler community comes together to pledge that “Honor and integrity will not allow me to lie, cheat, or steal, nor to accept the actions of those who do.” Therefore, we enforce the [Student Conduct and Discipline policy](#) in the Student Manual of Operating Procedures (Section 8).
- **FERPA** - UT Tyler follows the Family Educational Rights and Privacy Act (FERPA) as noted in [University Policy 5.2.3](#). The course instructor will follow all requirements in protecting your confidential information.
- **Recording of Class Sessions:** Class sessions may be recorded by the instructor for use by students enrolled in the course. Recordings that contain personally identifiable information or other information subject to FERPA shall not be shared with individuals not enrolled in the course unless appropriate consent is obtained from all relevant students. Class recordings are reserved only for students enrolled in the course and only for educational purposes. Course recordings should not be shared outside of the course in any form without express permission.
- **Absence for Official University Events or Activities:** All courses follow the practices related to approved absences as noted by the Student Manual of Operating Procedures ([Sec. 1 -501](#)).
- **Absence for Religious Holidays:** Students who anticipate being absent from class due to a religious holiday are requested to inform the instructor by the second-class meeting of the semester.
- **Campus Carry:** We respect the rights and privacy of students who are duly licensed to carry concealed weapons in all courses. License holders are expected to behave responsibly and keep a handgun secure and concealed. More information is available at <http://www.uttyler.edu/about/campus-carry/index.php>

