

Course: AUD 6352: Medical Audiology
Professor: Andrew Golboro, Au.D., CCC-A, FAAA
Term: Summer 2016
Meeting: Tuesday and Thursday, 6:00-9:00 PM, CD2J.204



Professor's Contact Information:

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Office Hours: After class and by appointment

General Course Information:

Pre/Co-requisites: AUD 6305; AUD 6310
Course Description: Etiology and pathology of auditory and vestibular disorders, diagnostic testing and treatment procedures
Learning Outcomes: Students will (note ASHA guidelines in parenthesis):
1) Describe etiologies and pathologies of various auditory disorders (ASHA A2, A10)
2) Discuss the audiological and otologic evaluation and management of auditory disorders (ASHA A21, B1, C3, C7, C9, D2-b, D3, D4)
Required Texts: Musiek, FE, Baran, JA, Shinn, JB, Jones, RO (2012). *Disorders of the Auditory System*. San Diego, CA: Plural Publishing. (ISBN13 978-1-59756-350-5)
Guest Presenter: Dr. Cherysse Lanns, Au.D. has agreed to host our class for an inner ear/ vestibular conference & clinical workshop at UT Southwestern. Her contact information should you have questions on her presentation and workshop is cherysse.lanns@utsouthwestern.edu.
Suggested Materials:

Assignments & Tentative Academic Calendar (dates may be subject to change)

Week	Date	Writing Assignment Due	Topics Covered
1	May 24		Topics: The Outer Ear: Auricle and External Auditory Canal <ul style="list-style-type: none"> - Congenital malformations - Occlusions - Inflammatory disorders - Trauma - Neoplasms
	May 26		
2	May 31		Reading Assignment Due: Chapter 2 Structure and Function of the Auditory and Vestibular System pp. 11-16 (stop at The Middle Ear) Chapter 3 Audiologic, Vestibular, and Radiologic Procedures Chapter 4 Outer and Middle Ear Disorders
	June 2	Noise Induced Hearing Loss	Topics: The Middle Ear: Tympanic Membrane and Middle Ear <ul style="list-style-type: none"> - Congenital malformations - Trauma - Eustachian tube dysfunction - Infection and inflammatory disorders - Tumors - Diseases, metabolic and genetic disorders
3	June 7	Otosclerosis	
	June 9	Tinnitus	Reading Assignment Due: Chapter 2 Structure and Function of the Auditory and Vestibular System pp. 16-20 (stop at The Cochlea) Chapter 3 Audiologic, Vestibular, and Radiologic Procedures Chapter 4 Outer and Middle Ear Disorders
4	June 14		Outer and Middle Ear Review
	June 16	MIDTERM EXAM	MIDTERM EXAM
5	June 21	Down's Syndrome	Topics: The Inner Ear Reading Assignment Due: Chapter 2 Structure and Function of the Auditory and Vestibular System pp. 20-52 (stop at The Vestibular System)
	June 23	Waardenburg Syndrome	Topics: Disorders of the Inner Ear <ul style="list-style-type: none"> - Presbycusis (pp. 209), Hereditary/ Congenital hearing loss (pp. 369), Noise induced hearing loss (pp. 178), Ototoxicity (pp. 187, 307), Sudden hearing loss (pp. 221) Reading Assignment Due: Chapter 5, Chapter 9
6	June 28	Neurofibromatosis II	Topics: Disorders of the Inner Ear <ul style="list-style-type: none"> - Autoimmune Inner ear disease (pp. 205) - Temporal bone fractures (pp. 170) - Superior Canal Dehiscence (pp. 213) Reading Assignment Due: Chapter 5

	June 30	Acoustic Neuroma	Topics: Disorders of the Inner Ear, Auditory Nerve Disorders <ul style="list-style-type: none"> - Acoustic neuromas (pp. 239), CPA tumors/ Vascular Loop (pp. 267) - Auditory Neuropathy/ Dy-synchrony (pp. 259) - Other CNS disorders: Mass lesions, Vascular, Degenerative - Trauma and Head Injury (pp. 316) Reading Assignment Due: Chapter 6, Chapter 7
7	July 5		TBD/ Inner Ear and Vestibular Anatomy
	July 7	Bell's Palsy	Topics: Anatomy of the Vestibular System Reading Assignment Due: Chapter 2 The Vestibular System pp 52-59
8	July 12	Meniere's Disease	Vestibular Workshop at UTSW Topics: Vestibular Testing (chapter 2) Special Auditory/ Vestibular testing (chapter 3) Disorders of the Inner Ear, VIII CN, and CNS (chapter 7) <ul style="list-style-type: none"> - Peripheral and Central Vestibular System - Vestibular tests - Vestibular Disorders Reading Assignment Due: Chapter 3 Vestibular Assessment pp 82-87 Chapter 5 Meniere's pp. 194-204, Perilymph Fistulas pp 230-231
	July 14	Superior Canal Dehiscence	
9	July 19	Vestibular Migraines	
	July 21	Vestibular Labyrinthitis	
10	July 26		Topics : Rehabilitation <ul style="list-style-type: none"> - Hearing aids and cros systems - Cochlear implants - Bone anchored implantable devices - Vestibular rehabilitation Reading Assignment Due : TBA
	July 28		Case Studies/ Final Exam Review
11	Aug 2		Final Exam Review (cumulative)
	Aug 4		FINAL EXAM

Grading

Midterm Examination	30 %
Final Examination	35 %
Quizzes	15 %
Workshop	10 %
Writing Assignment and Presentation	10 %

Coursework Details

Examinations – Two examinations will be written to evaluate student comprehension of the course material. The midterm will evaluate the first portion of the class, and the final exam will be comprehensive.

Quizzes – Each quiz will comprise of 5-10 short questions. The questions will be comprised from the previous week's lecture. Answers will be discussed and graded following the quiz, at the beginning of each lecture. One missed quiz may be made up at the end of the semester.

Workshop – Hands-on clinical laboratory will be completed by the students. The students will be divided into teams to complete the handout. The workshop will be lead by the course instructor and a guest presenter. Presence is required to obtain credit.

Writing Assignments – There will be one writing assignment and an accompanying presentation for the course. A 300-500 word, double spaced and typed paper is to be completed on various assigned topics related to the course teachings (topics will be provided to the students). Each student is to find and summarize two peer-reviewed journal articles on their chosen topic. Short presentations on topics will be presented by the students. Details to follow. No credit for late papers; no late writing assignment will be accepted and will result in a zero grade.

Class Attendance

Students are expected to attend every class session and to actively participate.

Grading Scale

A/A+	100-95%
A-	94-90%
B+	89-87%
B	86-83%
B-	82-80%
C+	79-77%
C	76-73%
F	72-0%

ASHA Standards

The applicant must have knowledge of:

A2. Genetics and associated syndromes to hearing and balance

A10. Pathologies related to hearing and balance and their medical diagnosis and treatment

A21. Universal precautions and infectious/contagious diseases

B1. Implement activities that prevent and identify dysfunction in hearing and communication, balance, and other auditory-related systems

C3. Evaluating information from appropriate sources and obtaining a case history to facilitate assessment planning

C5. Conducting and interpreting behavioral and/or electrophysiologic methods to assess hearing thresholds and auditory neural function

C7. Conducting and interpreting otoacoustic emissions and acoustic immittance (reflexes)

C9. Evaluating functional use of hearing

D2. Development of a culturally appropriate, audiologic rehabilitative management plan that includes, when appropriate, the following:

b. Determination of candidacy of persons with hearing loss for cochlear implants and other implantable sensory devices and provision of fitting, mapping, and audiologic rehabilitation to optimize device use

D3. Determination of candidacy for vestibular and balance rehabilitation therapy to persons with vestibular and balance impairments

D4. Treatment and audiologic management of tinnitus

Student Conduct and Discipline

The University of Texas System and The University of Texas at Dallas have rules and regulations for the orderly and efficient conduct of their business. It is the responsibility of each student and each student organization to be knowledgeable about the rules and regulations which govern student conduct and activities. General information on student conduct and discipline is contained in the UTD publication, A to Z Guide, which is provided to all registered students each academic year.

The University of Texas at Dallas administers student discipline within the procedures of recognized and established due process. Procedures are defined and described in the Rules and Regulations, Board of Regents, The University of Texas System, Part 1, Chapter VI, Section 3, and in Title V, Rules on Student Services and Activities of the university's Handbook of Operating Procedures. Copies of these rules and regulations are available to students in the Office of the Dean of Students, where staff members are available to assist students in interpreting the rules and regulations (SU 1.602, 972/883-6391).

A student at the university neither loses the rights nor escapes the responsibilities of citizenship. He or she is expected to obey federal, state, and local laws as well as the Regents' Rules, university regulations, and administrative rules. Students are subject to discipline for violating the standards of conduct whether such conduct takes place on or off campus, or whether civil or criminal penalties are also imposed for such conduct.

Academic Integrity

The faculty expects from its students a high level of responsibility and academic honesty. Because the value of an academic degree depends upon the absolute integrity of the work done by the student for that degree, it is imperative that a student demonstrate a high standard of individual honor in his or her scholastic work.

Scholastic dishonesty includes, but is not limited to, statements, acts or omissions related to applications for enrollment or the award of a degree, and/or the submission as one's own work or material that is not one's own. As a general rule, scholastic dishonesty involves one of the following acts: cheating, plagiarism, collusion and/or falsifying academic records. Students suspected of academic dishonesty are subject to disciplinary proceedings.

Plagiarism, especially from the web, from portions of papers for other classes, and from any other source is unacceptable and will be dealt with under the university's policy on plagiarism (see general catalog for

details). This course will use the resources of turnitin.com, which searches the web for possible plagiarism and is over 90% effective.

Email Use

The University of Texas at Dallas recognizes the value and efficiency of communication between faculty/staff and students through electronic mail. At the same time, email raises some issues concerning security and the identity of each individual in an email exchange. The university encourages all official student email correspondence be sent only to a student's U.T. Dallas email address and that faculty and staff consider email from students official only if it originates from a UTD student account. This allows the university to maintain a high degree of confidence in the identity of all individual corresponding and the security of the transmitted information. UTD furnishes each student with a free email account that is to be used in all communication with university personnel. The Department of Information Resources at U.T. Dallas provides a method for students to have their U.T. Dallas mail forwarded to other accounts.

Withdrawal from Class

The administration of this institution has set deadlines for withdrawal of any college-level courses. These dates and times are published in that semester's course catalog. Administration procedures must be followed. It is the student's responsibility to handle withdrawal requirements from any class. In other words, I cannot drop or withdraw any student. You must do the proper paperwork to ensure that you will not receive a final grade of "F" in a course if you choose not to attend the class once you are enrolled.

Student Grievance Policy

Procedures for student grievances are found in Title V, Rules on Student Services and Activities, of the university's Handbook of Operating Procedures.

In attempting to resolve any student grievance regarding grades, evaluations, or other fulfillments of academic responsibility, it is the obligation of the student first to make a serious effort to resolve the matter with the instructor, supervisor, administrator, or committee with whom the grievance originates (hereafter called "the respondent"). Individual faculty members retain primary responsibility for assigning grades and evaluations. If the matter cannot be resolved at that level, the grievance must be submitted in writing to the respondent with a copy of the respondent's School Dean. If the matter is not resolved by the written response provided by the respondent, the student may submit a written appeal to the School Dean. If the grievance is not resolved by the School Dean's decision, the student may make a written appeal to the Dean of Graduate or Undergraduate Education, and the dean will appoint and convene an Academic Appeals Panel. The decision of the Academic Appeals Panel is final. The results of the academic appeals process will be distributed to all involved parties.

Copies of these rules and regulations are available to students in the Office of the Dean of Students, where staff members are available to assist students in interpreting the rules and regulations.

Incomplete Grades

As per university policy, incomplete grades will be granted only for work unavoidably missed at the semester's end and only if 70% of the course work has been completed. An incomplete grade must be resolved within eight (8) weeks from the first day of the subsequent long semester. If the required work to complete the course and to remove the incomplete grade is not submitted by the specified deadline, the incomplete grade is changed automatically to a grade of F.

Disability Services

The goal of Disability Services is to provide students with disabilities educational opportunities equal to those of their non-disabled peers. Disability Services is located in room 1.610 in the Student Union. Office hours are Monday and Thursday, 8:30 a.m. to 6:30 p.m.; Tuesday and Wednesday, 8:30 a.m. to 7:30 p.m.; and Friday, 8:30 a.m. to 5:30 p.m.

The contact information for the Office of Disability Services is:
The University of Texas at Dallas, SU 22
PO Box 830688

Richardson, Texas 75083-0688
(972) 883-2098 (voice or TTY)

Essentially, the law requires that colleges and universities make those reasonable adjustments necessary to eliminate discrimination on the basis of disability. For example, it may be necessary to remove classroom prohibitions against tape recorders or animals (in the case of dog guides) for students who are blind. Occasionally an assignment requirement may be substituted (for example, a research paper versus an oral presentation for a student who is hearing impaired). Classes enrolled students with mobility impairments may have to be rescheduled in accessible facilities. The college or university may need to provide special services such as registration, note-taking, or mobility assistance.

It is the student's responsibility to notify his or her professors of the need for such an accommodation. Disability Services provides students with letters to present to faculty members to verify that the student has a disability and needs accommodations. Individuals requiring special accommodation should contact the professor after class or during office hours.

Religious Holidays

The University of Texas at Dallas will excuse a student from class or other required activities for the travel to and observance of a religious holy day for a religion whose places of worship are exempt from property tax under Section 11.20, Tax Code, Texas Code Annotated.

The student is encouraged to notify the instructor or activity sponsor as soon as possible regarding the absence, preferably in advance of the assignment. The student, so excused, will be allowed to take the exam or complete the assignment within a reasonable time after the absence: a period equal to the length of the absence, up to a maximum of one week. A student who notifies the instructor and completes any missed exam or assignment may not be penalized for the absence. A student who fails to complete the exam or assignment within the prescribed period may receive a failing grade for that exam or assignment.

If a student or an instructor disagrees about the nature of the absence [i.e., for the purpose of observing a religious holy day] or if there is similar disagreement about whether the student has been given a reasonable time to complete any missed assignments or examinations, either the student or the instructor may request a ruling from the chief executive officer of the institution, or his or her designee. The chief executive officer or designee must take into account the legislative intent of TEC 51.911(b), and the student and instructor will abide by the decision of the chief executive officer or designee.

Off-Campus Instruction and Course Activities

Off-campus, out-of-state, and foreign instruction and activities are subject to state law and University policies and procedures regarding travel and risk-related activities. Information regarding these rules and regulations may be found at http://www.utdallas.edu/BusinessAffairs/Travel_Risk_Activities.htm. Additional information is available from the office of the school dean.

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