



Course Syllabus

Course Information

Course Number/Section SPAU 3341
Course Title Advanced Clinical Audiology
Section 001

Term Fall 2015
Days & Times Tuesdays 1:45 – 4:15 pm
Location Callier Dallas – Please refer to Course Look-up for Room Number

Professor Contact Information

Professor Prof. J.L Clark 214-905-3031
jclark@utdallas.edu
Office- Callier Dallas J217
Office Hours Wednesday, **by appointment**

Teaching Assistant Dr. Katharine Fitzharris
klf110020@utdallas.edu
Office Hours Thursday, 2:00 – 5:00 p.m. (GR 4.808B)

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

None

Course Description

Instrumentation and calibration standards for audiology practice. The development and application of standard diagnostic audiology procedures. Administration and interpretation of standard audiometric tests. 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. The specific standards addressed in this class are:

Student Learning Objectives/Outcomes (note: ASHA guideline in parenthesis)

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

Audiology, 2nd Ed. (2014). Steven Kramer. Plural Publishing: San Diego.

Reserves to be found through UTD – Callier Reserves



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Recommended Texts

Elements of Audiology: A Learning Aid with Case Studies. (2007). Frederick N. Martin & John Greer Clark. Allyn & Bacon: Boston.

Introduction to Audiology: A Review Manual, 5th-10th edition. (2008). Frederick N. Martin & John Greer Clark. Allyn & Bacon: Boston

**Class lecture notes will be posted on UTD eLearning. Please print out the power point handouts prior to class IF you choose to use them to take notes efficiently.

ASSIGNMENTS & COURSE CALENDAR

(These descriptions and timelines are subject to change at the discretion of the instructor.)

- Aug 25** – Overview (Kramer, Chapter 12 & 13)
Sound and Measurement (Kramer, Chapter 2)
Human ear
- Sept 1** – Otoscopy
Anatomy & Disorders of Outer Ear (Kramer, Chapter 1 outer ear pages, Chapter 3 functions of outer ear, Chapter 9, outer ear disorders)
[Lecture Recorded-no physical class]
- Sept 8** – Anatomy & Disorders of and Middle Ear (Kramer, Chapter 1 middle ear pages, Chapter 3 functions of middle ear, Chapter 9, middle ear disorders)
- Sept 9** - **Last Day to Drop Class without a “W”. Please confirm date via “Course Look-up” for any changes made by the Registrars office.**
- Sept 15** – Anatomy & Disorders of Inner Ear ((Kramer, Chapter 1 inner ear pages, Chapter 3 functions of inner ear sections, Chapter 9, cochlear disorders)
Auditory Nerve & Central Auditory Pathway Pure-tone ((Kramer, Chapter 1 Auditory and vestibular neural pathways pages, Chapter 3 vestibular system function, Chapter 9, neural disorders) - Dr. Fitzharris Lecture
REVIEW
- Sept 22** – Exam 1 – in Classroom
- **Comet card is REQUIRED** (you will not be given an exam without it)!!
 - **NO food, beverage, NO open notes, books, coats, hats, gloves, cellphones, electronic devices permitted on desktop nor in view**
 - **Once testing is started, students will not be allowed to leave room until exam is completed**
 - **NO children allowed in Classroom**
- Sept 28** - **LAST DAY TO DROP (Approval Required) – Please confirm through “Course Look-up” for any changes made by the Registrars office.**
- Sept 29** – Audiometry/THE AUDIOGRAM, Tuning Fork Tests/Bone Conduction (Kramer, Chapter 4 - through synopsis 1)
- Oct 6** – Threshold Determination, Hearing Loss (Kramer, Chapter 4 – procedures for obtaining thresholds, examples of how to establish thresholds, variables influencing thresholds), Threshold demonstration VIDEO available to view on eLearning



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- Oct 13 – Pediatric Threshold Determination (Kramer, Chapter 4 – Techniques for testing infants/toddlers, conditioned-play audiometer, visual reinforcement. School Screenings (Roeser & Clark – reserves, Chapter 5); REVIEW
- Oct 20 – Exam 2 – in Classroom
- **Comet card is REQUIRED** (you will not be given an exam without it)!!
 - **NO food, beverage, NO open notes, books, coats, hats, gloves, cellphones, electronic devices permitted on desktop nor in view**
 - **Once testing is started, students will not be allowed to leave room until exam is completed**
 - **NO children allowed in Classroom**
- LAST DAY TO WITHDRAW FROM CLASS WITH SIGNATURE (October 29) Please confirm through “Course Look-up” for any changes made by the Registrars office**
- Oct 27 – Speech Audiometry (Kramer Chapter 7); Masking (Kramer Chapter 6; Roeser & Clark - reserves, Chapter 13). Masking Video Demonstration on eLearning
- Nov 3 – Immittance (Roeser & Clark - Reserves, Chapter 18; Kramer, Chapter 8 – through synopsis 2) – Otoacoustic Emission, etc. (Kramer, Chapter 8 – through synopsis 3; Stach – reserves pp.312-324). **Clinical Cases** worksheets can be found on eLearning with your assigned 2 cases. Bring to class to view and apply information during the lecture.
- Nov 10 – Electrophysiology (Kramer, Chapter 8 – through synopsis; Stach – Reserve, pp.292-312); **CLINICAL CASE WORKSHEETS DUE by 3:45 p.m.** (eLearning)
- Nov 17 – Hearing Aids and remediation (Kramer, chapter; Chapter 9; Musket- reserves, Chapter 11) **Simulator Testing Results DUE by 3:45 p.m.!!** (eLearning)
REVIEW
- Dec 1 – Other areas of Audiology; Clinical Case Interpretations Reviewed. REVIEW
- Dec 8 – Exam 3 - (NO MAKE-UP!!) – in Classroom
- **Comet card is REQUIRED** (you will not be given an exam without it)!!
 - **NO food, beverage, NO open notes, books, coats, hats, gloves, cellphones, electronic devices permitted on desktop nor in view**
 - **Once testing is started, students will not be allowed to leave room until exam is completed**
 - **NO children allowed in Classroom**

Class Projects

Labs There are 2 types of **REQUIRED** activities for this class. Please review dates in syllabus above as **DUE DATES VARY**. In combination, they will make-up 10% of your class grade.

You are required to complete ALL:

A. SIMULATIONS:

3 Pure tone audiometric simulations (See Syllabus for DUE DATE) - The simulator program is found on 1 computer each at Callier Dallas and Callier Richardson Computer Lab. You and (if you choose) one partner will reserve a 1 hour time spot; a column of specific simulator settings are posted by the simulator in the Callier Computer Center. Sign your names to the first available empty space next to the simulator settings shown. To complete these simulations it will require a minimum knowledge of



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air conduction, using proper audiometric symbols and rendering an accurate audiological interpretation of results.

In order to get FULL credit, once you are finished with each case, you are to submit a photo or screen shot of the entire screen for each case completed.

OPTIONAL EXTRA CREDIT:

Students may choose to obtain extra credit points by accurately completing bone conduction thresholds across all appropriate frequencies **and/or** correctly using masking across all frequencies for both ears (PLEASE NOTE: TO OBTAIN EXTRA CREDIT FOR MASKING -- IF MASKING ISN'T NECESSARILY CALLED FOR, YOU MUST STILL OBTAIN MASKED THRESHOLDS FOR ALL FREQUENCIES FOR ALL 3 SIMULATIONS WITH A NOTE THAT YOU ARE WANTING TO GET EXTRA CREDIT POINTS). Remember YOU are required to correctly NOTE results and interpretations on each audiogram THIS IS THE ONLY ASSIGNMENT IN WHICH YOU MAY COMPLETE WITH A PARTNER!!! If you wish to test live humans INSTEAD of the simulator, please contact the instructor to make the appropriate arrangements. Please note the due date on the course syllabus.

B. WORKSHEETS:

You will find your 2 worksheet assignments on eLearning. The 2 assigned worksheets will have complete clinical audiometric and immittance test results. You are required to interpret the degree and type of hearing loss for each ear as well as tympanogram type with a prediction of what the immittance results would suggest for each ear. Please note due date as shown on the course syllabus. THIS IS AN INDEPENDENT ASSIGNMENT!

SUBMITTING LAB WORK LATE WILL BE REFLECTED IN THE LAB GRADE

Grading Policy

Acquired knowledge will be assessed via two exams, one comprehensive exam, interpreting clinical audiological and immittance results, and conducting audiological evaluations. All information will be presented in lectures, readings, and videotapes. Knowledge will be applied and skills demonstrated via class discussion, various labs, and interpretation of clinical case studies.

1. Two exams (each worth 30% of grade) –ALL students **MUST alert Dr. Clark within 24 hours of exam, if you require a make-up.** All make-up exams are essay, with a maximum grade possible of 90%.
2. Third exam (also 30% of grade) –**NO MAKE-UP EXAM POSSIBLE!**
3. Labs (10% of grade) – See labs above.

ASHA STANDARDS ADDRESSED IN THIS CLASS: How knowledge is conveyed and how knowledge and skill acquisition will be demonstrated.

Standard IV-B

The applicant must have demonstrated knowledge of basic human communication and swallowing processes, including the appropriate biological, neurological, acoustic, psychological, developmental, and linguistic and cultural bases.

Standard IV-C

The applicant must have demonstrated knowledge of communication and swallowing disorders and differences and swallowing disorders, including the appropriate etiologies, characteristics, anatomic/physiological, acoustic, psychological, developmental, and linguistic and cultural correlates.

Standard IV-D



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For each of the areas specified in Standard VI-C, the applicant must have demonstrated current knowledge of the principles and methods of prevention, assessment, and intervention for people with communication and swallowing disorders, including consideration of anatomical/physiological, psychological, developmental, and linguistic and cultural correlates.

Field Trip Policies

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 the website address http://www.utdallas.edu/BusinessAffairs/Travel_Risk_Activities.htm. Additional information is available from the office of the school dean. Below is a description of any travel and/or risk-related activity associated with this course.

Student Conduct & 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.



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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 Procedures

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 Grade Policy

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



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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 Holy Days

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.

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