Disorders of Hearing and Balance (SLHS-582A)
(Mon. & Wed. 3:00 – 4:15) Speech & Hearing Sciences Building, Rm 409

Description of Course
This course will provide general information about the medical aspects of hearing impairment and to review the clinical implications of hearing disorders. Consideration of special auditory tests involved in the differential diagnosis of aural pathologies will be discussed.

Instructor and Contact Information
Instructor: Frank E. Musiek, SLHS Rm 526, (520) 621-3726, fmusiek@email.arizona.edu
Office Hours - TBA
Assistant: Barrett St. George – graduate research assistant, NeuroAudiology Lab- SLHS Rm 525, stgeorge@email.arizona.edu

Course Format and Teaching Methods
This course is taught primarily as a lecture. There will be some in-class discussion to facilitate understanding of course content.

Lecture slides will be accessible via D2L

Course Objectives and Expected Learning Outcomes
1. Students will be able to outline key tests related to disorders of the peripheral and central auditory/vestibular systems.
2. Students will be able to discuss the symptoms & etiologies of disorders both the peripheral and central auditory systems.
3. Students will be able to identify audiological tests correlates to disorders of the peripheral and central auditory systems.
4. Students will be able to discuss the overall influence of pathology on both peripheral and central auditory mechanisms.

Absence and Class Participation Policy
The UA’s policy concerning Class Attendance, Participation, and Administrative Drops is available at http://catalog.arizona.edu/2015-16/policies/classatten.htm

The UA policy regarding absences for any sincerely held religious belief, observance or practice will be accommodated where reasonable: http://policy.arizona.edu/human-resources/religious-accommodation-policy.

Absences preapproved by the UA Dean of Students (or dean’s designee) will be honored. See http://uhap.web.arizona.edu/policy/appointed-personnel/7.04.02

Participating in the course and attending lectures and other course events are vital to the learning process. As such, attendance is required at all lectures and discussion section meetings. Students who miss class due to illness or emergency are required to bring documentation from their health-care provider or other relevant, professional third parties. Failure to submit third-party documentation will result in unexcused absences.

Required Texts or Readings
The primary text will be “Disorders of the Auditory System” – Musiek, Baran, Shinn and Jones
Recommended text: “Audiological Medicine” - Luxon
The primary textbook (Musiek et al.) is available to purchase through the UofA bookstore: http://shop.uabookstore.arizona.edu/main/CourseMaterials.aspx

Assignments and Examinations: Schedule/Due Dates

There will be 10 quizzes (approximately 1 quiz per week) worth 10 pts each. These quizzes will not be announced in advance. There will be a final exam (date and time TBA) worth 120 pts. There will also be an oral presentation that is worth 25 pts (this presentation date will be assigned to you at the beginning of the semester). Accordingly, the total points in this course is 245 points.

Grading Scale and Policies

A final grade of 90 - 100% (221 points or more) is an “A”. A final grade of 80 - 89% (220-196) is a “B”, and so forth. There will be no rounding or curving of grades.

The student’s final grade will be calculated simply by dividing the total earned points by the total possible points that can be obtained in the course. Under most circumstances, late work will not be accepted, unless previously approved by instructor.

Extra credit is possible – needs to be approved by instructor.

Requests for incomplete (I) or withdrawal (W) must be made in accordance with University policies, which are available at http://catalog.arizona.edu/2015-16/policies/grade.htm#I and http://catalog.arizona.edu/2015-16/policies/grade.htm#W, respectively.

Scheduled Topics/Activities

1/11  Introduction: Audiology and auditory/vestibular disorders relationship; patient history, overview of course; orientation of information – a medical/audiology approach. Audiologic and vestibular tests, peripheral and central & the disordered system. READINGS: Chapters 1 & 3 also read handouts

1/18  Tests con’t; Disorders of the outer and middle ear & common audiologic findings. READINGS, Chapter 4

1/23 & 1/25  Recruitment, Inner Ear disorders & related test findings. READINGS: Chapter 5

1/30 & 2/1  Inner ear con’t.

2/6  Disorders of auditory/vestibular nerves & related tests. READINGS, Chapter 6 (*no class 2/8)

2/13 & 2/15  Catch up & review of peripheral auditory and vestibular disorders

2/20 & 2/22  Orientation to disorders of the central auditory nervous system (CANS), nervous vs. sensory symptoms and test findings

2/27 & 3/1  Disorders of CANS: mass and vascular lesions & related tests, READINGS: Chapter 7

3/6 & 3/8  Disorders of the CANS: degenerative disorders & related tests, READINGS: Chapter 7

3/13 & 3/15  No class - SPRING BREAK

3/20 & 3/22  Disorders of the CANS: neurotoxicity & related tests, READINGS: Chapter 7

3/27 & 3/29  Disorders of the CANS: Head trauma & iatrogenic & related tests, READINGS: Chapter 7

4/3 & 4/5  Disorders of the CANS: Temp. lobe epilepsy and learning problems (incl. dyslexia) & related tests. READINGS: Chapter 7
4/10 & 4/12  In brief: auditory hallucinations, central deafness, Vestibular disorders in semi-isolation
4/17 & 4/19  Individual vestibular disorders and CANS problems
4/24 & 4/26  Catch up, the neuroscience of auditory disorders (option) & Review

Topics for Oral Presentation: the “classics”

1. Perichondritis Pinna
2. Exostoses
3. Paget’s disease
4. Enlarged vestibular aqueduct
5. Barotrauma (Diving)
6. Cogan’s syndrome
7. Cochlear Dead Regions
9. Aniridia
10. Amusia
11. Auditory deprivation (humans)
12. Perfect pitch syndrome
13. Misophonia & polyacusis
14. Palinacousis

This presentation will require a 10 minute lecture on the disorder selected. At the time of the presentation you will need to hand in a concise 1-2 page summary and key references of the main points of your presentation. You should include at least 1 illustration or figure. Try to include history of disorder, key symptoms, incidence/prevalence, etiology/pathology, site of lesion, key audiology/vestibular, key medical findings, audiologic/medical management.

Your grade will be solely dependent on your presentation unless the summary is very poorly done or not turned in—then points will be subtracted from your presentation.

Classroom Behavior Policy
To foster a positive learning environment, students and instructors have a shared responsibility. We want a safe, welcoming, and inclusive environment where all of us feel comfortable with each other and where we can challenge ourselves to succeed. To that end, our focus is on the tasks at hand and not on extraneous activities (e.g., texting, chatting, reading a newspaper, making phone calls, web surfing, etc.).

Students are asked to refrain from disruptive conversations with people sitting around them during lecture. Students observed engaging in disruptive activity will be asked to cease this behavior. Those who continue to disrupt the class will be asked to leave lecture or discussion and may be reported to the Dean of Students.

Threatening Behavior Policy
The UA Threatening Behavior by Students Policy prohibits threats of physical harm to any member of the University community, including to oneself. See http://policy.arizona.edu/education-and-student-affairs/threatening-behavior-students.

Accessibility and Accommodations
Our goal in this classroom is that learning experiences be as accessible as possible. If you anticipate or experience physical or academic barriers based on disability, please let me know immediately so that we can discuss options. You are also welcome to contact the Disability Resource Center (520-621-3268) to establish reasonable accommodations. For additional information on the Disability Resource Center and reasonable accommodations, please visit http://drc.arizona.edu.

If you have reasonable accommodations, please plan to meet with me by appointment or during office hours to discuss accommodations and how my course requirements and activities may impact your ability to fully participate.
Please be aware that the accessible table and chairs in this room should remain available for students who find that standard classroom seating is not usable.

**Code of Academic Integrity**

Students are encouraged to share intellectual views and discuss freely the principles and applications of course materials. However, graded work/exercises must be the product of independent effort unless otherwise instructed. Students are expected to adhere to the UA Code of Academic Integrity as described in the UA General Catalog. See [http://deanofstudents.arizona.edu/academic-integrity/students/academic-integrity](http://deanofstudents.arizona.edu/academic-integrity/students/academic-integrity).

The University Libraries have some excellent tips for avoiding plagiarism, available at [http://www.library.arizona.edu/help/tutorials/plagiarism/index.html](http://www.library.arizona.edu/help/tutorials/plagiarism/index.html).

*Selling class notes and/or other course materials to other students or to a third party for resale is not permitted without the instructor’s express written consent.* Violations to this and other course rules are subject to the Code of Academic Integrity and may result in course sanctions. Additionally, students who use D2L or UA e-mail to sell or buy these copyrighted materials are subject to Code of Conduct Violations for misuse of student e-mail addresses. This conduct may also constitute copyright infringement.

**UA Nondiscrimination and Anti-harassment Policy**

The University is committed to creating and maintaining an environment free of discrimination; see [http://policy.arizona.edu/human-resources/nondiscrimination-and-anti-harassment-policy](http://policy.arizona.edu/human-resources/nondiscrimination-and-anti-harassment-policy).

**Additional Resources for Students**

UA Academic policies and procedures are available at [http://catalog.arizona.edu/2015-16/policies/aaindex.html](http://catalog.arizona.edu/2015-16/policies/aaindex.html)

Student Assistance and Advocacy information is available at [http://deanofstudents.arizona.edu/student-assistance/students/student-assistance](http://deanofstudents.arizona.edu/student-assistance/students/student-assistance)

**Subject to Change Statement**

Information contained in the course syllabus, other than the grade and absence policy, may be subject to change with advance notice, as deemed appropriate by the instructor.