

Communication Sciences & Disorders 4301

PRINCIPLES OF AUDIOLOGY

Tuesday, Thursday 10:10-11:30
Ritter Hall 109

Instructor: Doris Fallon Snyder, M.A., CCC- A/SLP
116 Weiss Hall
215-204-7544
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Teaching Assistant:

Office Hours:

Tuesday	12:00-1:00
Wednesday	10:30- 11:30
Thursday	9:00- 10:00
Others	by appointment

Course Description: Introductory course in the study of hearing, the assessment of hearing impairment, and hearing disorders. Knowledge of basic concepts in the physics of sound and anatomy and physiology of the auditory system is assumed (Comm Sci 234 Hearing Science is pre-requisite).

The student will demonstrate through examination, class discussions, written assignments, and oral presentations, a basic understanding of:

- History and Scope of Practice of the field of Audiology
- Basic concepts of acoustics and anatomy & physiology of the auditory system as it relates to the measurement of hearing, as well as, how it is effected by the presence of a disorder or impairment
- Clinical methods and procedures in evaluating the auditory system, involving behavioral (pure tone and speech audiometry), and physiologic (acoustic immittance, Brainstem Evoked Response, and Otoacoustic Emissions Audiometry) measures
- Interpretation of results of audiologic assessment involving the above procedures
- The different types of hearing disorders and the associated hearing impairment
- Related disorders associated with hearing disorder or impairment and their effect on communication

Primary Text: Gelfand, Stanley A. Essentials of Audiology, Second edition, 2000

References: Martin, Frederick and Clark, John. Introduction to Audiology (8th edition), 2003
Martin, Frederick and Clark, John. Elements of Audiology, A Learning Aid with Case Studies, 2007
Stach, Brad. Clinical Audiology. An Introduction. 1998

Powerpoint

Outlines: Outlines of the Powerpoint Presentation used for lectures are posted on Blackboard and should be downloaded and printed prior to the lecture to assist with notetaking. These outlines do **NOT** contain all material of the lectures and are not intended as a substitute for class attendance. These outlines may be updated during the semester, so to have the most current information, it is recommended that they not be downloaded until the week of the scheduled lecture.

Course Requirements:

1. **Examinations:** 200 points: two (2) examinations each worth 100 points. Information on each exam will come from assigned readings, class lectures, presentations, and discussions. The final exam will be cumulative for the entire semester.
2. **Quizzes:** 100 points: each worth 10 points. Weekly online quizzes will be given to assess learning of recent material and provide framework for review and discussion of the most important information. A quiz will be available on Blackboard only on selected dates (see schedule) on concepts covered in any of the preceding lectures. There will be no make up quizzes but an allowance is made for unavoidable circumstances. A total of 12 quizzes are scheduled but only the scores from the top 10 quizzes will be used to calculate the quiz score. These are Optional not Bonus Quizzes.
3. **Related Hearing Disorders Project:** 100 points: break down as follows in description. All members of the class will research and compile a notebook of disorders related to or associated with hearing disorders and/or hearing impairment. This project will include:

1. **Fact Sheets:** two (2) fact sheets each worth 25 points. Each student will research two (2) Disorders related to or associated with hearing loss and prepare a Fact Sheet on each for the instructor, Graduate Assistant, and classmates. Sign up sheets will be circulated and posted by instructor. The fact sheets should include, but need not be limited to:
 - Description of the disorder, condition, or environmental factor
 - Medical findings, incidence, related symptoms
 - Typical audiologic findings, i.e., type and severity of loss
 - Implications for communication (**not just hearing**)
 - Treatment and Management of the disorder
 - Treatment and Management of the hearing impairment related to the disorder

A list of references must be included and must include at least one peer reviewed publication. Information from websites, public information releases, and /or newspapers or magazines (including ASHA Leader and ADVANCE) can be used judiciously but not exclusively. Grading format is posted under Course Information on Blackboard.

2. **Presentation:** Oral Presentation worth 25 points. Each Student will prepare and give a brief oral presentation for the class using Powerpoint on one of the Related Hearing Disorders above. Presentations will be graded according to organization and preparation, completeness and usefulness of information, effectiveness of oral presentation, and quality of materials.
3. **Notebook on Hearing Disorders:** Completed notebook worth 25 points. Students will outline specific auditory disorders by site of pathology and organize the Fact Sheets on the Related Disorders into a Notebook and will compile a Table of Contents based upon Etiology. A template for both the outline and Table of Contents will be posted on Blackboard.

Grading: Grading will be based upon the accumulation of a possible 400 points on the Course Requirements above. There will be some homework assignments throughout the semester which will earn extra credit points but there will be no other extra credit work accepted at the end of the semester to improve a grade.

A = 372+ points
A- = 360+ points
B+= 340+ points
B = 320 + points
B- = 305+ points
C+= 295+ points
C = 280+ points
C- = 260+ points
D = 240+ points
F = < 240points

Blackboard: Blackboard, the online Learning system used at Temple, is part of the Tuportal. It is available to all Temple faculty, students, and staff, but you must open a Temple Account at Computer Services located in the TECH Center. The above syllabus, as well as Readings, Illustrations, Charts, Forms, and other class material are posted on Blackboard. All registered students will be automatically enrolled in the Blackboard Course Comm Sci & Dis 4301. If you are not enrolled as a User for Comm Sci & Dis 4301, inform either the Instructor or the Teaching Assistant. If you are new to Temple, a guide to using Blackboard, Blackboard Quick Reference Guide for Students, is available in brochure form at Computer Services and online at their website <http://www.temple.edu/cs/students/blackboard.htm>

Student Responsibility:

You are expected to be punctual, attend class and participate in class discussions. There is a lot of material to cover and it is strongly recommended that students read listed text and references, download and print PP outlines posted on Blackboard prior to the class. You are expected to read the sections of the primary text listed for the topic and will be responsible for the material **even if it is not discussed in class**. Although attendance in class will not be taken, you are responsible for all material covered in lectures and discussions, as well as, completion of all course requirements. Copies of the supplemental texts used as references are available upon request from the instructor. Please be courteous to your classmates and not horde or misplace them. Tests, quizzes and examinations will only be given as scheduled unless arrangements are made in writing and approved in advance. Papers and presentations are due on the specified date and will be marked down one grade if late unless a request for an extension has been requested and approved in advance. Requests for extensions should be put in writing in my mailbox or by e-mail **before** the due date. No verbal or telephone requests will be accepted.

In the event that extensions were given, no assignment will be accepted after the last day of classes. Any class requirement not completed by the last day of classes will be counted as zero (0) points toward the final class grade. Grades will be submitted for all students at the end of the semester unless previous arrangements are made. Remember it is the student's responsibility to drop or withdrawal from classes. Requests to take an Incomplete in the course must comply with University Policy. Students must initiate request for an Incomplete prior to the last class of the semester and must complete a Contract for Completion of Coursework with the Instructor.

Academic Honesty:

All students are expected to be familiar with and to adhere to the University and College of Health Professions (CHP) Policy on Academic Honesty. Cheating and plagiarism will not be tolerated. Plagiarism is the use and passing off, as one's own the ideas or writings of another without proper attribution. All assignments even if collaborative are to be the individual's own work. Also, students need to be mindful of copyright laws.

Sexual Harassment:**Temple University Policy Statement on Sexual Harassment and Sexual Assault**

Temple University is committed to providing a learning and working environment that emphasizes the dignity and worth of every member of its community, free from discriminatory conduct. Sexual harassment and sexual assault, in any form or context, are inimical to this and will not be tolerated. Sexual harassment and assault subvert the mission and the work of the University, and can threaten the career, educational experience, and well-being of students, faculty, and staff. University policies on sexual assault and harassment, which include procedures for filing complaints, are available upon request by contacting Ms. Sandra A. Foehl, Associate Vice President for Affirmative Action, Office of Affirmative Action, 109 University Services Building, (215) 204-7303 (TTY: 204-6772). http://www.temple.edu/affirmative_action

Academic Rights and Responsibilities:

Freedom to teach and freedom to learn are inseparable facets of academic freedom. The University has adopted a policy on Student and Faculty Academic Rights and Responsibilities (Policy # 03.70.02) which can be accessed through the following link: http://policies.temple.edu/getdoc.asp?policy_no=03.70.02.

Students with Disabilities:

Students who need special considerations in class or with test taking need to identify their needs at the start of the semester and work through the Office on Disabilities.

Counseling Services for Students:

Students who need help determining career goals or are having personal, family or relationship issues, may consult with counselors from Temple University's Bradley Counseling Clinic to help sort through problems. The clinic, located in Weiss Hall, 13th St. and Cecil B. Moore Ave., offers counseling by trained therapists who are doctoral students in Temple's counseling psychology program. Fees for counseling sessions are assessed on a sliding scale. All sessions are strictly confidential and are by appointment.

The clinic's Vocational Counseling Center, which is open Wednesdays from 4-7 p.m., assists clients who are at a crossroads in their careers or who are trying to determine what type of work is best for them. Counselors work with clients to identify the educational and work backgrounds, career goals and personality traits that could aid their job search.

The Community Counseling Clinic provides personal and career counseling on Thursdays from 2-8 p.m. Therapists help clients work through their personal, family or relationship problems and can also provide input about career or educational planning.

For information on the Bradley Counseling Clinic services or to schedule an appointment, call Marcy Chessler, 215-204-1591.

COURSE SCHEDULE

Dates	Topic(s)	Readings
1/22	Introduction to course	
1/24	History and Overview of Profession	Stach, <u>Clinical Audiology, An Introduction</u> , Chap. 1 (on Blackboard)
1/29	Fundamentals of Normal Hearing Acoustics Quiz 1 due	Gelfand, <u>Essentials of Audiology</u> , Chapter 1
1/31	Fundamentals of Normal Hearing Anatomy & Physiology	Gelfand, Chapter 2 (Review Gelfand, Chapter 3)
2/04	Last Day to Drop Class	
2/05	Hearing Science Wrap up	
2/07	Overview of the Basic Audiologic Evaluation Quiz 2 due	
2/12	Instrumentation and Test Environment	Gelfand, Chapter 4
2/14	Pure tone Audiometry Quiz 3 due	Gelfand, Chapter 5
2/19	Pure Tone Audiometry (cont.)	
2/21	Hearing Loss and Interpretation of the PT Audiogram Quiz 4 due	Gelfand, Chap 5
2/26	Speech Audiometry: Thresholds Quiz 5 due	Gelfand, Chapter 8
2/28	Speech Audiometry: Performance Measures	Gelfand, Chapter 8
3/04	Speech Loudness Judgements Mid-term Exam Review Quiz 6 due	
3/06	Mid-Term Examination	
3/11 & 3/13	Spring Break	
3/18	Acoustic Immittance Audiometry	Gelfand, Chapter 7
3/20	Acoustic Immittance Audiometry (cont) Quiz 7 due	

COURSE SCHEDULE (continued)

Dates	Topic(s)	Readings
3/25	Acoustic Immittance Audiometry (cont) Presentations	
3/27	Pediatric Audiology Quiz 8 due	Gelfand, Chapter 12
3/31	Last Day to Withdraw from an Undergraduate Course	
4/01	Physiologic Measures of Auditory Assessment: Brainstem Auditory Evoked Response (BAER) Presentations	Gelfand, Chapter 11
4/03	Physiologic Measures of Auditory & Vestibular Assessment Otoacoustic Emissions (OAE) Electronystagmography (ENG) Quiz 9 due	
4/08	Disorders of the Auditory System I: Outer Ear Presentations, Fact Sheets due	Gelfand, Chapter 6
4/10	Disorders of the Auditory System II: Middle Ear Quiz 10 due	
4/15	Disorders of the Auditory System II: Middle Ear (cont.) Presentations	
4/17	Disorders of the Auditory System II: Middle Ear (cont.) Quiz 11 due	
4/22	Disorders of the Auditory System III: Inner Ear Presentations	
4/24	Disorders of the Auditory System III: Inner Ear Presentations	
4/29	Disorders of the Auditory System III: Central and Non-organic Disorders Quiz 12 due	Gelfand, Chapter 6 & 14
5/01	Conclusion of Presentations, if needed, Hearing Disorders and Related topics, Notebooks due	
5/06	Study Day	
5/13	Final Examination	9:00-11:00

COMMUNICATION SCIENCES & DISORDERS 4301
Principles of Audiology

Knowledge & Skills Acquisition

Student: _____ **Semester:** _____

Instructor: Doris Fallon Snyder

Successful completion of the above course indicates the acquisition of the following knowledge and/or skills to satisfy the standards of the American Speech Language Hearing Association (ASHA) for the Certificate of Clinical Competence in Speech Language Pathology (CCC-SLP).

Standard	Knowledge & Skill
III-B	The student demonstrated knowledge by discussion & examination of the basic human communication process of hearing, including the biological, neurological, acoustic, and developmental bases.
III-C	The student demonstrated knowledge by discussion, oral presentation, writing, & examination of the etiologies & characteristics of hearing disorders and their impact on speech & language, including the anatomical /physiological, acoustic, psychological, cultural, and developmental correlates.
III-D	The student demonstrated knowledge by discussion and examination of the principles and methods of prevention and assessment of hearing disorders, including consideration of anatomical /physiological, acoustic, psychological, cultural, and developmental correlates.
III-G*	The student demonstrated knowledge by discussion and examination of contemporary professional issues including ASHA practice policies and Guidelines, Scope of Practice in Audiology and professional organizations.
III-H*	The student demonstrated knowledge by discussion and examination of ASHA certification & state licensure in Audiology.

* not on KASA Summary form