

Course: SPPA 310 Speech Science Fall 2007 W – 2:00-4:30 p.m. BH 161
3 Semester Credits

Instructor: Darah Regal, AuD., CCC-A
Assistant Professor of Audiology
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Required Textbooks: Ferrand, Carole T. Speech Science, second edition(2007). Allyn and Bacon.

Course Description: Provides intermediate level information regarding speech production, the nature of the speech signal, physics of sound and how speech is processed. Areas of study include anatomy, physics, speech and hearing disorders as well as neurophysiology. Understanding of speech production/perception and its impact on communication will also be discussed.

Course Objectives: By the end of this course, you will be able to:

1. Identify the anatomical structures of the speech and auditory systems.
2. Discuss the possible communication challenges of several speech and hearing disorders.
3. Explain the nature of several speech, language and hearing disorders.
4. Demonstrate skill in explaining etiologies, characteristics and developmental impact of speech and hearing disorders in oral presentations and written projects.
6. Possess knowledge of principles and methods of prevention, assessment and intervention for people with speech and hearing disorders.

Course Requirements:

1. **Class Attendance:** Record will be taken during the first five minutes of class. Promptness is vitally important to the continuity of class discussion. If you find you will be unable to attend class, please notify the teacher **prior to the class** to make arrangements for making up the work and obtaining handout material. Three absences will be allowed. Absences beyond that will jeopardize your grade 2% per day missed after the third day. Prolonged illness with physician explanation will be dealt with individually.
2. **Quizzes:** There will be either a take home quiz or in class quiz each week - 10-20 points each.
3. **Examinations:** There will be two examinations throughout the semester worth 75 - 150 points each.

Quizzes missed due to an excused absence will be prorated. Tests missed due to an excused absence may be made up within three days after the absence.

4. **Projects:**

Each week you will be assigned a project to present to the class the following week pertaining to a specific chapter of study. These projects may include, but will not be limited to, brochures, power point presentations, written documents, web searches, demonstrations and oral presentations. More information about specific requirements for each project will be given during the semester. (10-75 points each)

One of my goals for this class is the help you discover your talents and abilities to relay information to other people about the course content. Consequently, you will be asked to present/prepare projects for different audiences such as parents, physicians, teachers, parents and co-professionals. When you have to present information, you learn it in a different way than a standard written exam.

5. **FINAL PORTFOLIO:** At the end of the semester, (look at the schedule for the due date) you will turn in a copy of all projects and project revisions. All projects will be shared with and discussed with the whole class. The positive feedback from the class can be used to “re-do” assignments. The original project will be turned into me on the date assigned, the same project or revised project will be in your portfolio. Your final grade for the portfolio will partially be based on how well you used the suggestions of the class to make revisions. 100 points

6. Changes to this course outline, assignments, quizzes and exams may be changed as deemed necessary by the professor to foster optimal instruction. This can include additional assignments, review quizzes or assignments and extra credit.

7. **Grading:**

Grades will be calculated on a percentage basis as follows:

94.0 - 100%	A	73.5-77.99%	C
90.0 - 93.99%	A-	70.0-73.49%	C-
87.5 - 89.99%	B+	65.0-69.99%	D
83.5 - 87.49%	B	Below 65%	F
80.0 - 83.49%	B-		
77.5 - 79.99%	C+		

8. Academic dishonesty including plagiarism, copying other students work, stealing quizzes or accepting stolen quizzes or exams is a serious offense. Possible consequences are a warning, reduced or failing grade, suspension or dismissal from the class, expulsion from the university, and/ or degree cancellation.

9. Andrews University is committed to the education of all students on campus. AIf you qualify for accommodations under the American Disabilities Act, please see the instructor as soon as possible for referral and assistance in arranging such

accommodations.@

10. CELL PHONE and EATING in class. In an effort to make the most valuable use of your time and mine, I am requesting that cell phones be turned OFF during class and that eating during class be discontinued. Cell phones ringing and/or vibrating are a distraction. If there is an emergency and you need to be reached by cell phone during class, you must discuss the emergency with me prior to class. Please plan to ear prior to class so that you can easily participate in class discussion and take notes.
11. E-Mail - you are responsible for checking you Andrews e-mail account for messages from class. Please check your e-mail on a regular basis for important messages.
12. This course is designed to meet certain ASHA certification standards. The following knowledge and skill areas will be addressed:
 - A. Standard III-B The applicant must demonstrate knowledge of basic human communication and swallowing processes, including their biological, neurological, acoustic, psychological, developmental, and linguistic and cultural bases. This course will expect knowledge in the anatomical, neurological, acoustic, psychological, developmental, linguistic and cultural of several communication processes.
 - B. Standard III-C The applicant must demonstrate knowledge of the nature of speech, language, hearing, and communication disorders and differences and swallowing disorders, including their etiologies, characteristics, anatomical/physiological, acoustic psychological, developmental, and linguistic and cultural correlates. Specific knowledge for this course will be expected in the areas of articulation, voice, hearing and neurological disorders. Your presentations and projects will be designed to demonstrate this knowledge
 - C. Standard IV-B: Possesses skill in oral and written and other forms of communication sufficient for entry into professional practice. You will be beginning the process to become proficient in these areas through weekly projects assigned.

TENTATIVE COURSE OUTLINE

	<u>Chapter</u>	Ferrand
Aug. 29	Introduction - The nature of sound	2
Sept. 5	The Nature of Sound, Clinical Application	2& 3
Sept. 12	Respiratory System	4
Sept. 19	Respiratory System, Clinical Application	5
Sept. 26	The Phonatory System	6
Oct. 3	Phonatory System, Clinical Application	7
Oct. 10	The Articulatory System	8
Oct. 17	MIDTERM EXAM	
Oct. 24	Articulatory System, Clinical Application	9
Oct. 31	The Auditory System	10
Nov. 7	Auditory System, Clinical Application	11
Nov. 14	The Nervous System	12
Nov. 21	THANKSGIVING BREAK	
Nov. 28	Nervous System, Clinical Application	13
Dec. 5	Models and Theories of Speech Production and Perception	14
Dec. 7	Portfolio Due	
Final Exam - Wednesday, December 12, 2007, 1:30-3:30 p.m.		