

ANDREWS UNIVERSITY
SPEECH LANGUAGE AND HEARING DEPARTMENT

COURSE: **SPEECH SCIENCE**
SPPA 310 3 Credits
Fall 2011 M W F 8:30 - 9:20 a.m.
Bell Hall 161

INSTRUCTOR: **Heather Ferguson MS-CCC/SLP**
Associate Professor of Speech-Language Pathology
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REQUIRED TEXT: 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 OBJECTIVE: By the end of this course, the student 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.

ASHA CERTIFICATION STANDARDS

This course addresses the following Knowledge and Skill Areas (KASA) required for ASHA certification in Speech-Language Pathology by ASHA's Council for Clinical Certification (CFCC):

Standard III-A: Demonstrate knowledge of biological sciences, physical sciences, mathematics, and social/behavioral sciences.

Standard III-B: Demonstrate knowledge of basic human communication processes, including their biological, neurological, acoustic, psychological, developmental, linguistic and cultural bases.

Standard III-C: Demonstrate knowledge of the nature of speech, language, hearing and communications disorders and differences including their etiologies, characteristics, anatomical/physiological, acoustic, psychological, developmental, and linguistic and cultural correlates.

COURSE REQUIREMENTS:

- **Class Absences.** Whenever the number of absences exceeds 20% (10% for graduate classes) of the total course appointments, the teacher may give a failing grade. Merely being absent from campus does not exempt the student from this policy. Absences recorded because of late registration, suspension, and early/late vacation leaves are not excused. The class work missed may be made up only if the teacher allows. Three tardies are equal to one absence.
- **Quizzes:** There will be either a take home quiz or in class quiz each week worth 10-20 points each. **Quizzes missed due to an excused absence will be prorated.**
- **Examinations:** There will be two examinations throughout the semester worth 75 - 150 points each. **Tests missed due to an excused absence may be made up within three days after the absence.**
- **Projects:** Throughout the semester students will be assigned a project to present to the class 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 (10-75 points each). More information about specific requirements for each project will be given during the semester. One of the purposes of this class is to help students discover their talents and abilities to relay information to individuals such as parents, physicians, teachers, parents and co-professionals. Consequently, students will be asked to present/prepare projects for these various audiences.
- **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.

GRADES:

Grading Scale:

A	94.0 - 100%
A-	90.0 - 93.99%
B+	87.5 - 89.99%
B	83.5 - 87.49%
B-	80.0 - 83.49%
C+	77.5 - 79.99%
C	73.5 - 77.49%
C-	70.0 - 73.49%
D	65.0 - 69.99%
F	Below 65%

TENTATIVE CLASS SCHEDULE

DATE		TOPIC	CHAPTER	ASSIGNMENT
August	22	Orientation	2 & 3	
	24	The Nature of Sound		
	26	Clinical Application		
	29			

	31			
September	02	Chapter 2 & 3 Cont'd		
	05	Labor Day - No Class		
	07	The Respiratory System Clinical Application	4 & 5	Ch. 2 & 3 Quiz
September	09	(Project #1 Brochure Due)	4 & 5	
	12			
	14			
	16	Project #1 Due		
	19	The Phonatory System Clinical Application (Class meets @ 8:10 - 8:50 a.m.)	6 & 7	Ch 4 & 5 Quiz
	21			
	23			
	26	The Phonatory System Clinical Application cont'd		
	28			
	30			
October	03	The Articulatory System Clinical Application	8 & 9	Ch 6 & 7 Quiz
	05			6 & 7 Quiz 6 only
	07			
	10	Fall Recess - No Class		
	12	The Articulatory System Clinical Application cont'd		
	14	(Power Point Presentation - Project #2)		Project #2 Due
	17	Power Point Presentation		
	19	Review for Exam (chapter 9)		
	21	Exam (chapters 2 - 9) (6-9)		
	24	The Auditory System Clinical Application	10 & 11	
	26			
28				
31				
November	02			
	04			
	07	The Nervous System Clinical Application	12 & 13	Ch 10 & 11 Quiz
	09			
	11			
	14			Presentation
	16			
	18	(Letter Due - Project #3)		Project #3 Due
	21	Speech Production Models and Theories	14	
	23	THANKSGIVING BREAK - NO CLASS		
	25			
28	Speech Production Models and Theories	14		
30	Review for Final Exam			
December	02	Reading Day - No Class		
	07	Final Exam (chapter 10 - 14) 7:30 - 9:30 a.m.		
HAVE A WONDERFUL VACATION				