

ANDREWS UNIVERSITY
SPEECH LANGUAGE AND HEARING DEPARTMENT

COURSE: **SPEECH SCIENCE**
SPPA 310 3 Credits
Fall 2012 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, 2nd 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 Attendance.** Attendance and prompt arrival to class is vitally important to the classroom community and atmosphere. As per university policy absences in excess of 20% of the total course appointments may result in a failing grade. Absences recorded because of late registration, suspension, and early/late vacation leaves are not excused. If a student is absent for any reason it is that student's responsibility to arrange to receive handouts, lecture notes, or any other materials missed. Prolonged illness with a physician's explanation will be addressed on an individual basis. Three tardies are equal to one absence.
- **Quizzes:** 10 – 20 point quizzes will be given weekly.
- **Examinations:** There will be two examinations worth 75 - 150 points each. **Examinations missed due to an excused absence may be made up within three days after the absence.**
- **Projects:** Throughout the semester students will be assigned projects. 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, 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.

COURSE POLICIES:

- **Academic Integrity:** In harmony with the mission statement of Andrews University all students are expected to demonstrate moral integrity. Therefore, plagiarism, copying other students work, stealing 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.
- **Cell phones:** All cell phones are to be turned off during class time. Ringing and/or vibrating cell phones are a distraction to the students as well as to the instructor. **This will not be tolerated and students who are unable to adhere to this rule will be asked to leave the class and meet with the Dean to gain reentry to the class.**
- **American Disabilities Act:** If you qualify for accommodations under this act, please see the instructor as soon as possible for referral and assistance in arranging such accommodation.
- **Changes:** For the purpose of an enhanced learning experience for the students some assignments, quizzes, tests and projects may be changed or altered at the discretion of the instructor. Likewise, the class schedule is tentative and subject to change.
- **All assignments are due at the beginning of class.** After that time a daily deduction of 5% will be applied to the final of the assignment. After 3 days (72 hours) the assignment will no longer be accepted.

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	ASSIGNMENT
August	27	Orientation and Syllabus Review	
	29	Chapter 2 Nature of Sound Presentations	
	31		
September	3	LABOR DAY - NO CLASS	
	5	Chapter 2 Presentations - Cont'd	
	7	Chapter 3 Clinical Application	Chapter 2 Quiz
	10*	Nature of Sounds	
	12*	Chapter 4 The Respiratory System	
	14*		
	17		Chapter 4 Quiz
	19	Chapter 5 Clinical Application	
	21	The Respiratory System	Project #1 Due
	24	Chapter 6 The Phonatory System	
	26		
	28		
	October	01	Chapter 7 Clinical Application
03		Phonatory System	
05		Review for Examination #1	
8		Fall Recess No Class	
10		Examination #1	
12		Chapter 8 Articulatory System	
15			
17			Chapter 8 - Quiz #4
19		?	
22		Power Point Presentation	Project #2 Due
24			
26		Chapter 9 Clinical Application	
29			Articulatory System
31	Chapter 10		
November	2	Auditory System	

	5		
	7	Chapter 11 Clinical Application Auditory System	Chapter 10 Quiz
	9		
	12	Chapter 12 Nervous System	
	14		
	16		
	19	Chapter 13 Clinical Application Nervous System	Chapter 12 Quiz
	21	Thanksgiving Break No Classes	
	23		
	26	Chapter 13 Clinical Application Nervous System (cont'd)	
	28	?	
	30	Final Project Presentation	Final Project Due
December	03		
	05	Final Examination Review	
	07	Reading Day - No Class	
	12	Comprehensive Final Examination 7:30 - 9:30 am Wednesday	

*Indicates Week of Spiritual Emphasis. 8:30 - 9:20 Classes begin at 8:10 - 8:50