

**ANDREWS UNIVERSITY**  
**DEPARTMENT OF SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY**

**COURSE:**           **ANATOMY & PHYSIOLOGY OF SPEECH & HEARING**  
SPPA 280 3 Credits  
SPRING 2013   MWF 8:30 - 9:20 a. m.  
Bell Hall 161

Lab: Wednesday 1:45 - 3:30 p. m.  
Halenez Hall Rm A - 111

**INSTRUCTORS:**   **Heather Ferguson MS - CCC/SLP**  
Associate Professor of Speech-Language Pathology  
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E-mail - [dregal@andrews.edu](mailto:dregal@andrews.edu)

**REQUIRED TEXTS:** Seikel, J. A. (2010) Anatomy & Physiology for Speech, Language and Hearing 4<sup>th</sup> Eds  
Clifton Park, NY: Delmar Learning

Zemlin, E. & Zemlin W. R. (1997). Speech and Hearing Science: Anatomy and Physiology. Champaign, IL: Stripes Publishing.

**OPTIONAL TEXT:** McFarland, D. (2009). Netter's Atlas of Anatomy for Speech, Swallowing, and Hearing  
Philadelphia, PA: Elsevier Publishing.

**For ISBN and price information, please see the listing at the Bookstore [www.andrews.edu/bookstore](http://www.andrews.edu/bookstore).”**

**COURSE DESCRIPTION:** A survey of the anatomy and physiology for articulation, respiration, and hearing. Areas of study will include skeletal structures, muscles, tendons, nerves, and circulation necessary speech and hearing.

**COURSE OBJECTIVES:** At the conclusion of this course, students will demonstrate an ability to:

- Identify anatomical structures necessary for respiration, phonation, articulation, and hearing.
- Discuss the mechanics of respiration, phonation, articulation, and hearing including the nerves and muscles involved.
- Explain how the anatomical structures function together to produce speech and hearing

## ASHA Knowledge and Skills (KASA) Standards – Learning Outcomes

Course objectives will address the following ASHA Knowledge and Skills (KASA) standards:

- I. ASHA 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.
- II. 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.

**Indicators of Learning:** *Student will score average of at least 83.5% on all class assignments, tests, class participation rubrics and presentations.*

### **COURSE REQUIREMENTS:**

1. **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.
2. **Quizzes:** There will be either a take home quiz or in class quiz each week 10-20 points. Quizzes missed due to an excused absence will be prorated.
3. **Examinations:** There will be four examinations throughout the quarter worth 75 - 100 points each. All examinations will remain in the possession of the instructor. After exams have been graded they will be distributed for student review. They must be returned to the instructor to be recorded. Exams missed due to an excused absence may be made up within three days of the original administration of the exam. Arrangements must be made prior to the day of the exam. If an examination is missed it can only be made up with an official medical note.
4. **Laboratory Assignments:** There will be scheduled labs every week. Prompt arrival, active participation during the entire lab period, and completion of lab worksheets are all requirements and will be worth 10 points per lab period.
5. **Anatomy Workbooks:** Students are required to complete the sections of the workbook corresponding to materials covered in class. Workbooks should be turned in for grading at the time of each **LAB** examination. Each assignment completed will be worth 10 points per completed unit.
6. **Project:** Within the first **two weeks** of class turn in a written proposal of the anatomical area you plan to do as a project. Your project will be graded on the following items:
  - A. **Visual** - You can display your project using drawings, 3-D models, slides, overheads, etc. This display should be relevant, instructive and capable of enhancing the students ability to

understand your content area.

B. **Written** - The written portion should include 1) A clearly written description of the anatomy of the specific body system chosen, 2) A description of how the system contributes to the speech and/or hearing process and 3) A summarizing statement of how the information you learned can be applied and would be helpful to your career as a speech-language pathologist or audiologist.

C. **Oral** - You will present the information you learned to the class. Your oral presentation should include; 1) Use of visual aid materials, 2) A written handout to the class about your project. 3) demonstration of thought, organization and planning, 3) A summary of the practical application of the knowledge.

**The Project will be worth a total of 100 points!**

Additional assignments as deemed appropriate by the professor.

## COURSE POLICIES

- **Academic Integrity:** In harmony with the mission statement of Andrews University, it is expected that all students will 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.

Grading Scale:

A	94.0 - 100.0%
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 - 77.99%

C-	70.0 - 73.49%
D	65.0 - 69.99%
F	Below 65%

### Tentative Schedule

The instructor reserves the right to modify, eliminate or augment any or all portions of the schedule with reasonable prior notice to students.

### **TENTATIVE CLASS SCHEDULE**

Date		Class Topic	Lab Topic	Assignments
<b>January</b>	07	Anatomy Terminology		
	09	Chapter 1	Terminology	
	11	12 Cranial Nerves - Chapter 11		<b>Quiz</b>
	14	Outer Ear - Chapter 9		
	16	Middle Ear - Chapter 9	Cranial nerves, ear anatomy	
	18	Inner Ear - Chapter 9		<b>Quiz</b>
	21	<b>MLK Day - NO CLASS</b>		
	*23	Inner Ear - Chapter 9	Ear Anatomy	
	*25	Auditory Nerve Pathway - Chapter 9		
	28	Auditory Physiology - Chapter 10		
	30	Auditory Physiology - Chapter 10	Ear anatomy, respiration	
<b>February</b>	01	Respiration - Framework - Chapter 2		<b>Quiz</b>
	04	Respiration - Chapter 2		
	06	<b>Examination #1</b>	Respiration	
	08	Respiration - Chapter 2		
	11	Respiration - Chapter 2		
	13	Respiration and Physiology - Chapter 2, 3	Respiration	
	15	Respiration Physiology - Chapter 3		<b>Quiz</b>
	18	<b>Presidents' Day - NO CLASS</b>		
	20	Phonation - Chapter 4	<b>Lab Exam # 1</b>	<b>Lab Books Due</b>
	22			<b>Quiz</b>
	25			
	27	Phonation - Chapter 4	Phonation	
<b>March</b>	01	<b>Examination # 2</b>		
	04	Phonation Physiology - Chapter 4		
	06		Phonation	
	08	Articulation - Chapter 6		<b>Quiz</b>
	11			
	13	Articulation Physiology - Chapter 7	Articulation	
	15	<b>Spring Break</b>		
	18	<b>Spring Break</b>		
	20	<b>Spring Break</b>		
	22	<b>Spring Break</b>		
	25	Articulation Physiology - Chapter 7		
	27	Mastication and Deglutition - Chapter 8	Articulation	

	29	Mastication and Deglutition - Chapter 8		<b>Quiz</b>
<b>April</b>	01	Neuroanatomy - Chapter 11		
	03	<b>Examination # 3</b>	Neuranatomy	
	05	Neuroanatomy - Chapter 11		
	08			
	10		Neuroanatomy	
	12	Neurophysiology - Chapter 12		<b>Quiz</b>
	15			
	17	<b>Project Presentations</b>	<b>Review for Lab Final</b>	
	19			<b>Quiz</b>
	22			
	24		<b>Lab Final</b>	<b>Lab Books Due</b>
	26	<b>Reading Day - NO CLASS</b>		
<b>May</b>	1 Wed	<b>Comprehensive Final Exam 1:30 - 3:30 p.m.</b>		

\* Week of Spiritual Emphasis - Classes from 8:10 - 8:50 a. m.