

ANDREWS UNIVERSITY
DEPARTMENT OF SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY

COURSE: **ANATOMY & PHYSIOLOGY OF SPEECH & HEARING**
SPPA 280 3 Credits
Fall 2013 MWF 8:30 - 9:20 a. m.
Bell Hall 183

Lab: Tuesday 3:30 - 5:30 p. m.
Halenez Hall Rm A - 111

INSTRUCTORS: **Heather Ferguson MS - CCC/SLP**
Associate Professor of Speech-Language Pathology
Bell Hall Suite 114 (office hours posted)
Office Phone: 269-471-6369
Email - hferguson@andrews.edu

Darah Regal, Au.D., CCC-A
Assistant Professor of Audiology
Bell Hall Suite 114, (office hours posted)
Phone: 471-3469 Office
Phone: (269) 684-2324 Home. Please call before 9:30 p.m. unless it is an emergency.
E-mail - dregal@andrews.edu

REQUIRED TEXTS: Seikel, J. A. (2010) Anatomy & Physiology for Speech, Language and Hearing 4th 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.”

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. (III - B, III - C, III - D)
- Discuss the mechanics of respiration, phonation, articulation, and hearing including the nerves and muscles involved. (III - B, III - C, III - D)
- Explain how the anatomical structures function together to produce speech and hearing. (III - B, III - C, III - D)

ASHA Standards for Certification in Speech-Language Pathology and Audiology – Learning Outcomes

- Standard III-B. Demonstrate knowledge of basic human communication and swallowing processes, including their biological, neurological, acoustic, psychological, developmental, and linguistic and cultural bases.
- Standard III-C. Demonstrate knowledge of the nature of speech, language, hearing, and communication disorders and differences and swallowing disorders, including their etiologies, characteristics, anatomical/physical, acoustic, psychological, developmental, and linguistic and cultural correlates.
- Standards III-D. Possess knowledge of the principles and methods of prevention, assessment, and intervention for people with communication and swallowing disorders, including consideration of anatomical/physiological, psychological, developmental, and linguistic and cultural correlates of the disorders.

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 students will turn in a brief written proposal of the anatomical area you plan to do as a project. Students must work in groups of two. The project will be graded on the following area:

Visual Aid – Students can display projects using drawings, 3D models, slides etc. The visual aid should be must be relevant, instructive, and enhance the students’ ability to understand the content being presented.

Written Portion – The written of the project should include:

- A clearly written description of the anatomy of the specific body system chosen
- A description of how the system contributes to the speech and/or hearing process
- 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
- Students should have at least two references
- The document should have in text citations from the utilized references

Oral Portion – Oral portions of the project should include:

- Groups will present the information learned in class and through external research
- A written handout to the class about you project
- Demonstration of thought, organization and planning
- A summary of the practical application of the knowledge

Total points publish – 100 points

7. **Additional assignments will be assigned as deemed appropriate by the professor(s).**

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	Assignments
August	26	Anatomy Terminology Chapter 1	
	28		
	30	Cranial Nerves - Chapter 11	Quiz
September	2	Labor Day - No Class	
	4	Outer Ear - Chapter 9	
	6	Middle Ear - Chapter 9	Quiz
	9*	Inner Ear - Chapter 9	
	11*	Inner Ear - Chapter 9	
	13*	Auditory Nerve Pathway - Chapter 9	Quiz
	16	Auditory Physiology - Chapter 10	
	18	Auditory Physiology - Chapter 10	
	20	Neuroanatomy - Chapter 11	
	23	Examination #1	
	25	Neuroanatomy - Chapter 11	
	27		Quiz
	30		
October	2	Neurophysiology - Chapter 12	
	4		Quiz
	7	Respiration - Framework - Chapter 2	
	9	Respiration - Chapter 2	Lab Books Due
	11	Respiration - Chapter 2	Quiz
	14	Fall Recess - No Class	
	16	Respiration- Chapters 2	
	18	Examination # 2	
	21	Respiration & Physiology - Chapters 2 & 3	
	23	Respiration Physiology - Chapter 3	
	25	Phonation - Chapter 4	Quiz

	28	Phonation - Chapter 4	
	30		
November	1	Physiology of Phonation - Chapter 5	Quiz
	4		
	6	Articulation - Chapter 6	
	8		
	11	Examination # 3	
	13	Physiology of Articulation - Chapter 7	
	15		Quiz
	18	Project Presentations	
	20		
	22		
	25		
	27	Thanksgiving Break - No Class	
	29	Thanksgiving Break - No Class	
December	2	Mastication & Deglutition - Chapter 8	
	4		
	6	Reading Day	
	9	Comprehensive Final Exam 4:00 - 6:00	

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

Tentative Lab Schedule

Date		Topic	Assignments Due
August	27	Terminologies	
September	3	Cranial Nerves, Ear Anatomy	
	10	Ear Anatomy	
	17	Ear Anatomy, Neuroanatomy	
	24	Neuroanatomy	
October	1	Respiration, Review	
	8	Lab Exam #1	Lab Book Due
	15	Fall Recess - No Class	
	22	Respiration	
	29	Phonation	
November	5	Phonation	
	12	Articulation	
	19	Articulation	
	26	Thanksgiving Break - No Class	
December	3	Lab Final	Lab Book Due