

**Department of Communication Sciences and Disorders  
Western Kentucky University  
CD 484 – Speech Anatomy and Physiology  
Spring 2015**

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**Office Hours: Available by appointment**

**Synchronous Chat Times:** Tuesdays 6:00-8:00 P.M. Central Standard Time

**Catalogue Course Description:**

This course is designed to help students identify the structures and functions which comprise the speech and hearing mechanism. The relation of this mechanism to the production and development of speech and language will be addressed.

**Required Text:**

Seikel, J., King, D., & Drumright, D. (2010). *Anatomy & physiology for speech, language, and hearing*. (4th ed.). Clifton Park, NY: Delmar.

\*You are required to have this textbook prior to the first online meeting. It is highly recommended to purchase a textbook with the CD included as it can be used to study and review the material.

**Recommended:**

Stedman. (2011). *Stedman's medical dictionary for health professions and nursing*. (7th ed.). Philadelphia: Lippincott, Williams, & Wilkins.

**Course completion will allow students to:**

- Define anatomy, physiology, and related nomenclature
- Describe the motor speech subsystems of respiration, phonation, resonance, articulation, and prosody, as they relate to the speech process
- Identify primary bones, muscles, cartilages, nerves, and spaces relevant to speech production
- Describe the mechanics of respiration, phonation, resonance, and articulation as they relate to speech production
- Identify primary structures of the auditory mechanism
- Describe the process of hearing as it relates to communication
- Discuss the central, peripheral, and autonomic nervous system
- Discuss neuroanatomy as it relates to communication
- Discuss the effect that anatomical and/or physiological dysfunction would have on the communicative process
- Demonstrate understanding of the range of normal oral structure and function
- Analyze commonly used oral motor exercises according to muscles and functions affected
- Demonstrate understanding of how and why oral motor exercises should be applied in a clinical setting

## **Method of Instruction**

Instruction will be provided through a combination of synchronous online classes utilizing Blackboard, Adobe Connect Software, reading assignments, and online learning activities.

## **Evaluation of Student Achievement**

Unit Assignments (6 at 25 points each/150 points total): Unit assignments will aid students in processing and retaining the information presented in the lectures.

Unit Quizzes (4 at 25 points each/100 points total): Unit quizzes will be open book, open note, and online. Quizzes will assess students' understanding of covered topics.

Midterm and Final Exam (2 at 75 points each/150 points total): Examinations will assess the ability to demonstrate application of principles learned. Examinations are closed book, closed note, and online.

Oral Peripheral Evaluations and Summary Paper (100 points): Acquire five volunteers. One volunteer must be under age 7, one volunteer must be between 18-55, and another volunteer must be over 55. The other two volunteers can be any age. Complete Oral Mechanism Exam on each volunteer (see Assignment on Blackboard). You will not score the exam. You must video one of the examinations to submit for review. For each section of the oral mechanism exam write a summary of similarities and differences noted among the five participants. Take pictures or scan all evaluations and permission forms, include the summary, and submit as ONE document.

## **Grading Scale**

Grades are based on the total percentage of points earned. There are 500 total points possible.

A: 93-100  
B: 85-92  
C: 77-84  
D: 68-76  
F: Below 68

## **Course Policies**

### **Communication**

All class correspondence will be delivered to your WKU e-mail address or posted to Blackboard. Please check your e-mail and Blackboard regularly for class information, changes, and updates. E-mails to instructor will likely be answered within 24 hours of receipt.

### **Attendance and Participation**

Attendance to online synchronous chats is required unless extenuating circumstances exist and previous arrangements have been made with instructor. Emergencies will be addressed on an individual basis and must be communicated to instructor as soon as possible. Attendance and class participation are essential to successful course completion. Instructor may provide an alternate assignment to replace a missed online class.

### **Late Assignments**

Students receive a course schedule well in advance of assignment due dates. Late assignments are not accepted. All assignments will be due by 11:00 PM Central Standard Time on the due

date indicated on the course schedule. Emergencies will be addressed on an individual basis and must be communicated to instructor as soon as possible.

### **Assignment Format**

All assignments must follow APA format when required. Papers are to be written in 12 point Times New Roman font with one inch margins. The following website provides helpful information concerning APA style and citations: <http://owl.english.purdue.edu/owl/resource>

### **Technology Management**

This course will be presented using Blackboard software and Adobe Connect. Students must have access to reliable high-speed internet or have an alternate plan if connectivity issues arise. The WKU IT Help Desk can be reached at 270-745-7000 if you have any issues with Blackboard or Adobe. Visit this website to familiarize yourself with Adobe Connect before our first meeting: <http://www.wku.edu/it/adobeconnect/>

### **Plagiarism**

Note: Students must be familiar with plagiarism. Review the following tutorial for specific information: <http://isites.harvard.edu/icb/icb.do?keyword=paraphrasing>

*From the Faculty Handbook:* To represent ideas or interpretations taken from another source as one's own is plagiarism. Plagiarism is a serious offense. The academic work of students must be their own. Students must give the author(s) credit for any source material used. To lift content directly from a source without giving credit is a flagrant act. To present a borrowed passage after having changed a few words, even if the source is cited, is also plagiarism.

**Special Services:** Students with disabilities who require accommodations (academic adjustments and/or auxiliary aids or services) for this course must contact the Student Accessibility Resource Center, DSU 1074. The SARC telephone number is (270) 745-5004 V/TDD; the email is [sarc@wku.edu](mailto:sarc@wku.edu). Please DO NOT request accommodations directly from the professor or instructor without a letter of accommodation from the SARC.

### **Grievance**

The Department of Communication Disorders is accredited by the Council on Academic Accreditation (CAA) in Audiology and Speech-Language Pathology. Complaints about programs must be signed and submitted in writing to the Chair, Council on Academic Accreditation in Audiology and Speech-Language Pathology, American Speech Language-Hearing Association, 2200 Research Boulevard, Rockville, MD 20850-3289. The complaint must clearly describe the specific nature of the complaint and the relationship of the complaint to the accreditation standards, and provide supporting data for the charge. The complainant's burden of proof is a preponderance or greater weight of the evidence. Complaints will not be accepted by email or facsimile. The University's Grievance Policy is specified at the following URL: <http://www.wku.edu/StuAffairs/StuLife/handbook/2004pdf/16%20Student%20Grievance%20Procedure.pdf>

Note: This syllabus is subject to change at instructor's discretion.

## CD 484 Speech Anatomy and Physiology Assignments and Class Schedule

Assignments and the schedule are subject to change. Class meeting times are Tuesdays from 6:00-8:00 PM CST.

<b>Class Meeting Date</b>	<b>Topic</b>	<b>Assignment</b>	<b>Reading</b>	<b>Due Date</b>
<b>1/27</b>	Introduction, syllabus review, anatomy elements		Chapter 1	<b>2/2/2015</b>
<b>2/3</b>	UNIT ONE Respiration Anatomy		Chapter 2	<b>2/9/2015</b>
<b>2/10</b>	UNIT ONE Respiration Physiology	Unit One Quiz Unit One Assignment	Chapter 3	<b>2/16/2015</b>
<b>2/17</b>	UNIT TWO Phonation Anatomy		Chapter 4	<b>2/23/2015</b>
<b>2/24</b>	UNIT TWO Phonation Anatomy & Physiology		Chapters 4-5	<b>3/2/2015</b>
<b>3/3</b>	UNIT TWO Phonation Anatomy & Physiology Oral Mechanism Screenings	Unit Two Quiz Unit Two Assignment	Chapter 5	<b>3/9/2015</b>
<b>3/10</b>	NO CLASS – SPRING BREAK			
<b>3/17</b>	UNIT THREE Articulation & Resonation Anatomy		Chapter 6	<b>3/23/2015</b>
<b>3/24</b>	UNIT THREE Articulation & Resonation Anatomy	Unit Three Assignment	Chapter 6	<b>3/30/2015</b>
<b>3/31</b>	UNIT THREE Articulation & Resonation Physiology	MIDTERM	Chapter 7	<b>4/6/2015</b>
<b>4/7</b>	UNIT FOUR Mastication and Deglutition		Chapter 8	<b>4/13/2015</b>
<b>4/14</b>	UNIT FOUR Mastication and Deglutition UNIT FIVE Hearing Anatomy	Unit Four Quiz Unit Four Assignment	Chapters 8-9	<b>4/20/2015</b>
<b>4/21</b>	UNIT FIVE Hearing Physiology UNIT SIX Neuroanatomy	Unit Five Quiz Unit Five Assignment	Chapters 10-11	<b>4/27/2015</b>
<b>4/28</b>	UNIT SIX Neuroanatomy & Neurophysiology	Unit Six Assignment	Chapters 11-12	<b>5/4/2015</b>
<b>5/5</b>	UNIT SIX Neurophysiology FINAL REVIEW Final Exam available	Oral Motor Exams	Chapter 12	<b>5/11/2015</b>
<b>5/12</b>	Final Exam	Final Exam		<b>5/13/2015</b>