

# **CD 484: Speech Anatomy and Physiology**

## **Spring 2024**

**Instructor: Sara Poynter M.S., CCC-SLP**

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*Office Hours:* Immediately following class dismissal

Virtually by Appointment

### **Class Meeting Schedule:**

- This course will meet virtually Tuesday 5:30 – 7:30 PM CST
- The link for class will be available on Blackboard

### **Required Textbook**

Seikel, J., King, D., & Drumright, D. (2021). *Anatomy & physiology for speech, language, and hearing*. (6th ed.).

Clifton Park, NY: Delmar.

ISBN: 978-1-63550-279-4

### **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.

### **Course Objectives**

- 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

## Modes of Instruction and Communication

Instruction will be provided through synchronous online classes utilizing Zoom, Blackboard, reading assignments, and learning activities. Student WKU email addresses are the **ONLY** ones to which class correspondence will be sent. Students are responsible for checking their email and the Blackboard course site regularly. *If emailing the professor, please include your course number in the email (e.g. CD 484-700).*

## Course Assignments

Attendance and Participation	(30 possible points)
Chapter Assignments	(12 @ 25 points each / 300 possible points)
Exams	(3 @100 points each / 300 possible points)
Oral Peripheral Examinations	(100 possible points)
<b>Total Possible Points</b>	<b>730</b>

Extra Credit: Opportunity to earn extra credit points will be available in this course. Assignment details are on Blackboard.

## Grading Scale

Grades are based on the total percentage of points earned. This means that your grade equals earned points/total points. There are 730 total points possible. The grading scale is as follows:

A	90-100
B	80-89
C	70-79
D	60-69
F	59 and below

## Assignments/Tests/Study Guides

You will have weekly assignments, two unit tests, and a final exam.

a. We will move at a fast pace throughout this course, covering a chapter each week. All material is fair game! Weekly assignments will be largely over the material learned that week/chapter. However, tests will be cumulative and will have material from both recent and previous lectures.

b. It is very important that you complete the assigned weekly readings. This course encompasses too much material to adequately cover and discuss in weekly lectures alone. Therefore, it is your responsibility to remain up to date on class readings. Weekly assignments and cumulative tests will have material from both lectures and independent readings.

c. Instead of being a separate document, your study guides can be found in your book following each Chapter (e.g. Chapter 1, pgs 41-45). In addition, reviewing lectures/assigned readings ahead of tests is encouraged.

## Expectations

- Students are expected to attend class meetings and participate in class discussions and activities. Absences and/or failure to participate in class will result in a deduction of Attendance and Participation points.
- Emergencies and extenuating circumstances will be addressed on an individual basis and must be communicated to the instructor as soon as possible. Attendance and class participation are essential to successful course completion.
- Students are expected to log into Blackboard regularly to obtain notes, submit assignments, and check announcements.
- Assignments are to be submitted electronically via Blackboard and must be posted by 11:59PM CST of the due date. **No late submissions will be accepted.**
- Assignments should be completed in a *thorough* and *insightful* manner. Critical thinking skills should be evident. Surface level responses will be reflected in your grade.
- If unforeseen events interfere with your ability to participate in this course, prompt communication with the instructor would be to your advantage.
- Upon entry into the Zoom meeting, type your name into the textbox for attendance purposes.

## Class Schedule

Week Of:	Topic:	Readings:	Assignments:
January 16	Syllabus Review Chapter 1: Basic Elements of Anatomy	Syllabus Chapter 1	<b>Due 1/22:</b> <input type="checkbox"/> Assignment 1
January 23	Chapter 2: Anatomy of Respiration	Chapter 2	<b>Due 1/29:</b> <input type="checkbox"/> Assignment 2
January 30	Chapter 3: Physiology of Respiration	Chapter 3	<b>Due 2/05:</b> <input type="checkbox"/> Assignment 3
February 6	Chapter 4: Anatomy of Phonation	Chapter 4	<b>Due 2/12:</b> <input type="checkbox"/> Assignment 4
February 13	<b>Exam 1</b>		<b>Due 2/19</b>
February 20	Chapter 5: Physiology of Phonation	Chapter 5	<b>Due 2/26:</b> <input type="checkbox"/> Assignment 5
February 27	Chapter 6: Anatomy of Articulation and Resonance	Chapter 6	<b>Due 3/04:</b> <input type="checkbox"/> Assignment 6
March 5	Chapter 7: Physiology of Articulation and Resonance	Chapter 7	<b>Due 3/11:</b> <input type="checkbox"/> Assignment 7
March 12	Chapter 8: Physiology of Mastication and Deglutition	Chapter 8	<b>Due 3/18:</b> <input type="checkbox"/> Assignment 8
March 19	<b>Exam 2</b>		<b>Due 3/25</b>
March 26	Chapter 9: Anatomy of Hearing	Chapter 9	<b>Due 4/01:</b> <input type="checkbox"/> Assignment 9
April 2	Chapter 10: Auditory Physiology	Chapter 10	<b>Due 4/08:</b> <input type="checkbox"/> Assignment 10
April 9	Chapter 11: Neuroanatomy	Chapter 11	<b>Due 4/15:</b> <input type="checkbox"/> Assignment 11
April 16	Chapter 12: Neurophysiology	Chapter 12	<b>Due 4/22:</b> <input type="checkbox"/> Assignment 12
April 23	Review/Wrap up		<input type="checkbox"/> Oral Peripheral Evals
April 29	<b>Final Exam</b>		<b>**Due Wednesday 05/01**</b>

The instructor reserves the right to make changes to the topic schedule, assignment schedule, or point values based on schedule and/or class needs. Any needed changes will be communicated with students.

## **COVID Statement**

Out of respect for the health and safety of the WKU community and in adherence with the CDC guidelines, the University requires that a cloth face covering (reusable or disposable) that covers both the nose and mouth must be worn at all times when in public areas within all buildings. Students must properly wear masks/face coverings while in class regardless of the room size or the nature of the classroom activities. Students who fail to wear a face covering mask as required will be in violation of the WKU Student Code of Conduct and will be asked to comply or will face disciplinary action, including possible dismissal from the University. Accommodations to masks face coverings must be determined by the Student Accessibility Resource Center and documented before a student may attend class.

## **Diversity, Equity, & Inclusion Statement**

“Recognition and respect are core aspects of diversity, equity, and inclusion (DEI). The way we value and respond to facets of DEI is critical to our personal, academic, and professional growth. Every person in this class contributes to its diverse composition. We each contribute to the class by way of our being, values, thoughts, and experiences. While we may not always agree with or understand these factors and constructs, we are all responsible for maintaining a respectful environment for sharing and learning. I am committed to maintaining a teaching and learning environment conducive to fostering this recognition and respect.”

## **Technology Management**

This course will involve the use of Blackboard and Zoom software. **Managing student technology is the sole responsibility of the student.** The student is responsible for making sure that: (a) student word processing software is compatible with that used by the University; (b) student email software is working properly and that students know how to use it (e.g., to send attachments to the professor); (c) Internet service providers' equipment and software are installed and working properly in conjunction with student computers; (d) in the event that a student's computer stops working properly or becomes totally inoperative, the student has another means by which he or she can successfully complete the course; and (e) any other student technology problem or issue gets successfully resolved, and this in part implies that if a student cannot resolve any personal technology difficulties, his or her only workable solution may be to drop the course.

**The IT Help Desk can be reached at 270-745-7000.**

## **WKU Policies**

### ***Student Disability Services (ADA Accommodation Statement)***

In compliance with University policy, students with disabilities who require academic and/or auxiliary accommodations for this course must contact the Student Accessibility Resource Center located in Downing Student Union, 1074. SARC can be reached by phone number at 270-745-5004 [270-745-3030 TTY] or via email at [sarc.connect@wku.edu](mailto:sarc.connect@wku.edu). Please do not request accommodations directly from the professor or instructor without a faculty notification letter (FNL) from The Student Accessibility Resource Center.

### ***Plagiarism***

To represent ideas or interpretations taken from another source as his/her 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. Student work presented in this course may be analyzed using plagiarism detection software.

## ***Academic Honesty***

Academic Honesty is expected of students as defined by WKU here <https://www.wku.edu/handbook/academic-dishonesty.php/>.

## ***Title IX / Discrimination & Harassment***

Western Kentucky University (WKU) is committed to supporting faculty, staff and students by upholding WKU's Title IX Sexual Misconduct/Assault Policy (#0.2070) at <https://wku.edu/eoo/documents/titleix/wkutitleixpolicyandgrievanceprocedure.pdf> and Discrimination and Harassment Policy (#0.2040) at [https://wku.edu/policies/hr\\_policies/2040\\_discrimination\\_harassment\\_policy.pdf](https://wku.edu/policies/hr_policies/2040_discrimination_harassment_policy.pdf). Under these policies, discrimination, harassment and/or sexual misconduct based on sex/gender are prohibited. If you experience an incident of sex/gender-based discrimination, harassment and/or sexual misconduct, you are encouraged to report it to the Title IX Coordinator, Andrea Anderson, 270-745-5398 or Title IX Investigators, Michael Crowe, 270-745-5429 or Joshua Hayes, 270-745-5121. Please note that while you may report an incident of sex/gender-based discrimination, harassment and/or sexual misconduct to a faculty member, WKU faculty are "Responsible Employees" of the University and MUST report what you share to WKU's Title IX Coordinator or Title IX Investigator. **If you would like to speak with someone who may be able to afford you confidentiality, you may contact WKU's Counseling and Testing Center at 270-745-3159.**

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