

CD 484-710 Speech Anatomy & Physiology Spring 2016

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Virtual Office Hours: By appointment

Chat: Tuesday 8:45-10:00pm EST

Thursday 8:45 – 10:00 pm EST

Course Description

Examines the structure and function of the systems involved in normal speech perception and production (meets ASHA standard III B).

CD 484 is designed to help students identify the structures and functions, which comprise the speech and hearing mechanism. In addition, the relation of this mechanism to the production and development of speech and language will be addressed.

This is a web-enhanced class. Class Power Point slideshows, quizzes, and additional resources will be available on the WKU Blackboard site at <http://ecourses.wku.edu/>.

Texts:

Required

Seikel J., King D. (2016). *Anatomy and Physiology for Speech, Language, and Hearing* (5rd Ed.) [with CD] Thomson Delmar Learning, Publisher
Earlier addition is acceptable

Recommended

Any A&P coloring book at the appropriate educational level
- (For those who think that would be beneficial)

Evaluation/Grading:

Your grade in this course will be based on the following:

- ☐ Discussion Board Activities: 10%
- ☐ Attendance/Participation in online chats and live classes: 5%
- ☐ Quizzes: 10%
- ☐ Abstracts of topic related journal articles 10%
- ☐ Written Report 15%
- ☐ Mid-Term Examination: 20%
- ☐ Oral Peripheral Evaluation: 10%
- ☐ Comprehensive Final Examination: 20%

Grade Computation/Course Activities

Discussion Board Activities: 10%

10% of the course average will be based on participation and timely submission of 5 discussion board postings. Both quantity and quality of participation will be considered. Late postings will **not** receive credit.

Attendance/Participation in online chats: 5%

5% of the course average will be based on your attendance and participation of one virtual classroom chat weekly. If you are absent from a class you will not obtain a point for that date.

Quizzes: 10%

10% of the course average will be based on 4 quizzes. These will be open book/notes, on-line, and may be in the format of multiple choice, true/false, and/or short essay. The quizzes will be given at the conclusion of every 2 or 3 chapters in the text. It will be posted on Blackboard after class and will be due by **midnight** of the following Monday. Any quiz submitted after the deadline will not be accepted. There will be no make-ups.

Abstracts of topic related journal articles 10%

Via drop-box, students will submit a total of 4 abstracts from reputable journal articles concentrating on dysfunctions associated with the speech mechanism. Journal articles will be provided by the instructor and posted for your selection. Formal abstract format is expected. A sample will be posted for your viewing.

Oral Peripheral Evaluation: 10%

Five oral peripheral evaluations: Acquire five volunteers of any age, gender, or history. Write a one-page summary of the similarities and differences that you see. See assignment guidelines for details.

Written Report: 15%

Provide a typed 2-3 paged report (single spaced) entailing a targeted muscle given by the instructor; you will describe the importance and function of that muscle in regard to the communicative process. Discuss the effect that anatomical and/or physiological dysfunction of this muscle would have on the communicative process. Offer practical oral-motor exercises that would be therapeutic according to the muscles and functions affected. Include references, APA style.

Mid-Term and Comprehensive Final Examination (20% each):

Exams will include identification of anatomical structures. It will be posted on Blackboard after class and will be due by **midnight** of the following Monday. Any exam submitted after the deadline will not be accepted. There will be no make-ups.

Communication Disorders Program Scoring Standards

A	93-100
B	85-92
C	77-84
D	68-76
F	67 and below

Core Objectives and ASHA Knowledge and Skills Acquisition (KASA) Indicators

Core Objectives:

- a. Define anatomy, physiology, and related nomenclature
- b. Describe the motor speech subsystems of respiration, phonation, resonance, articulation, and prosody, as they relate to the speech process
- c. Identify primary bones, muscles, cartilages, nerves, and spaces relevant to speech production
- d. Describe the mechanics of respiration, phonation, resonance, and articulation as they relate to speech production
- e. Identify primary structures of the auditory mechanism
- f. Describe the process of hearing as it relates to communication
- g. Discuss the central, peripheral, and autonomic nervous system
- h. Discuss neuroanatomy as it relates to communication
- i. Discuss the effect that anatomical and/or physiological dysfunction would have on the communicative process
- j. Relate academic content of above objectives to volunteer subjects via administration of oral peripheral evaluations
- k. Demonstrate understanding of the range of normal oral structure and function
- l. Analyze commonly used oral motor exercises according to muscles and functions affected
- m. Demonstrate understanding of how and why oral motor exercises should be applied in a clinical setting

ASHA Knowledge And Skills Acquisition (KASA) Performance Indicators:

KASA Standard	Core Objective Addressed	Evaluation
III.B. Demonstrate knowledge of basic anatomic & physiological processes, including their biological, neurological, acoustic, psychological, developmental, and linguistic and cultural bases.	a,b,c,d,e,f, g,h,i	Quizzes Assignments Exams

III.C. Demonstrate knowledge of the nature of Speech, hearing, and communication disorders and differences and swallowing disorders, including the etiologies, characteristics, anatomical/physiological, acoustic, psychological, developmental, and linguistic and cultural correlates.	a,b,c,d,e,f, g,h,i	Quizzes Assignments Exams
III.D. Demonstrate knowledge of the principles and methods of prevention, assessment, and intervention for people with communication and swallowing disorders.	j,k	Assignments OSMSE-R
III. F. Demonstrate knowledge of processes used in research and the integration of research principles into evidence-based clinical practice.	j,k	OSMSE-R
IV.G.3. Demonstrate interaction and personal qualities including: communicate effectively, recognizing needs/values/preferred mode of communication, and cultural/linguistic background of client/caregivers/etc.; collaborate in case management; provide counseling regarding swallowing to client/caregivers/ etc.; adhere to ASHA code of ethics and behave professionally.	j,k,l,m	OSMSE-R Presentation

Policies

1. Students are responsible for all material presented. This is a web-based course. Access to compatible computer technology and software is your own responsibility.
2. Students are expected to attend class as scheduled and to participate in class during discussions. Students should withdraw from class if unable to participate in class discussions.
3. Quizzes and exams will be announced in advance. No make-ups will be provided or late assignments will be accepted.
4. All e-mail correspondence will be sent to your WKU e-mail address. You may forward this to your preferred e-mail account by following the instructions posted in the FAQ folder under Course Information. It is your responsibility to either forward your mail or check your WKU e-mail on a regular basis.
5. Plagiarism will result in failure of the assignment involved or a failing grade in the course. **Use APA style to reference sources and materials.**
6. Students with disabilities who require accommodations (academic adjustments and/or auxiliary aids or services) for this course must contact the Office for Student Disability Services, in the Student Success Center at Downing University Center A 201. The OFSDS telephone number is (270) 745-5004 V/TTY. Please

- do not request accommodations directly from the professor or instructor without a letter of accommodation from the Office for Student Disability Services.
7. The instructor reserves the right to modify this syllabus as needed.

Program Accreditation: The Council of Academic Accreditation (CAA), under the auspices of the American Speech Language Hearing Association (ASHA), has certified the Department of Communication Disorders at WKU as an authorized educational facility. If a student has a comment or complaint, they may contact CAA at ASHA, 10801 Rockville Pike, Rockville, MD 20852.