



Course COMD/SPAU/NSC 3344
Anatomy and Physiology of Speech and Hearing
Instructor Jana Mueller
Term Spring 2016
Meetings Tues/Thurs 2:30-3:45 GR4.428

Instructor's Contact Information

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Teaching Assistants

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General Course Information

Pre-requisites BBSC majors only

Course Description

Study of anatomic and physiologic mechanisms underlying speech: respiration, phonation, and articulation. Overview of the peripheral auditory system. This course has been designed to ensure that students demonstrate required knowledge and skill as outlined in the Standards Implementation Guidelines for the Certificate of Clinical Competence in Speech-Language Pathology. The specific standards addressed in this class are: III-A, III-B, III-C

Learning Outcomes

Students will:

1. Identify structures and functions associated with speech, hearing, and swallowing
2. Demonstrate knowledge of neuroanatomy, the nervous system, and neurological function associated with speech, hearing, swallowing, language, and cognition
3. Be able to identify structures and functions associated with impairment in speech, hearing, swallowing, language, and cognition

Required Texts & Materials

MacFarland, D. (2015). Netter's Atlas of Anatomy for Speech, Swallowing, and Hearing. 2nd Edition.

Evolve Course ID:

This course will require the use of a clicker. A clicker is an audience

response device that resembles a small calculator. This allows you to provide real-time feedback to your instructor during class. Class summary results are displayed graphically, providing students and the instructor a gauge as to how well the class is grasping the material. You can purchase (and sell back) your clicker at the UTD Bookstore.

** Class lecture notes will be posted at <http://elearning.utdallas.edu>.

** These descriptions and timelines are subject to change at the discretion of the instructor.

Assignments & Academic Calendar

DATES	CLASS TOPICS	READINGS
1/12	Course Overview & Introduction: Terms associated with Anatomy and Physiology	Introduction (p. 1-20)
1/13	Introduction to Online Resources and e-learning Assignment	
1/19	Introduction to the Nervous System	Part 5 (p 201-213)
1/21	Nervous System continued e-learning assignment 1 due	Part 5 (p 214-224)
1/26	Cranial Nerves	Part 5 (p234-254)
1/28	Respiration-musculature, structure, function Quiz 1	Part 1 (p. 23-43)
2/2	Respiration	Part 1 (p. 45-72)
2/4	Nervous system and respiration e-learning assignment 2 due	Part 1 (p. 44)
2/9	Phonation	Part 2 (p. 75-99)
2/11	Phonation e-learning assignment 3 due	Part 2 (p. 75-99, 104-105)
2/16	Nervous system and phonation	Part 2 (p. 100-103)
2/18	Functional assessment of respiration and phonation Case Study: dysphonia e-learning assignment 4 due	p. 72-74
2/23	Articulation Quiz 2	Part 3 (p. 107-143)
2/25	Articulation e-learning assignment 5 due	Part 3 (p. 107-143)
3/1	Articulation	Part 3 (p. 107-143)

3/3	Nervous system and Articulation e-learning assignment 6 due	Part 3 (p. 164-170)
3/8	Functional assessment of articulation Case Study: dysarthria	
3/10	MIDTERM EXAM	
3/14-3/19	SPRING BREAK NO CLASSES	
3/22	Swallow	Part 3 (p. 144-163)
3/24	Nervous system and swallow e-learning assignment 7 due	Part 3 (review p. 164-170)
3/29	Functional assessment of swallow Case study: dysphagia	
3/31	Structure of outer and inner ear e-learning assignment 8 due	Part 4 (p. 173-195)
4/5	Structure of outer and inner ear	Part 4 (p. 173-195)
4/7	Neuro Hearing e-learning Assignment 9 due	Part 4 (p. 196-200)
	Quiz 3	
4/12	Case study and assessment of hearing impairment	
4/14	Language and cognition	Part 5 (review p. 201-213; new p. 229-234)
4/19	Neuro language and cognition	
4/21	Case study: Aphasia e-learning assignment 10	
4/26	Case study: Traumatic brain injury	
4/28	Review	
5/3	Final Exam	

Course Policies

Grading (credit) Criteria	Assignments: 10 e-learning Assignments, each worth 5 points = 50 points
	Quizzes: 3 Quizzes, each worth 50 points = 150 points
Grading (credit) Criteria	Exams: 2 Exams, each worth 100 points = 200 points
	Classroom Participation: Graded based on percent participation with clicker responses with a maximum of 50 points possible: 95-100% participation = 50 90-95% participation = 45 85 – 90% participation = 40 80 – 85% participation = 35 75-80% participation = 30 70-75% participation = 25 65-70% participation = 20 60-65% participation = 15 55-60% participation = 10 50-55% participation = 5 less than 50% participation = 0
Grading (credit) Criteria	Final % Grade will be calculated from total points achieved out of 450 possible points
	97-100 = A + 93-96 = A 90-93 = A- 87-89 = B+ 83-86 = B 80-82 = B- 77-79 = C+ 73-76 = C 70-72 = C- 67-69 = D+ 63-66 = D 60-62 = D- Below 60 = F
Make-up Exams	Please contact the instructor if you will be absent the day of an exam. Make-up exams for known absences (Weddings/Vacations/Life events) must be scheduled with the instructor to occur prior to the date of the exam. Late exams will not be acceptable unless in the event of illness or emergency. In the event of illness or emergency, contact the instructor as soon as possible to schedule make-up exam.
Extra Credit	
Late Work	Only accepted under special circumstances (illness or emergency)
Special Assignments	10 e-learning assignments occur throughout the semester and account for 50 points (11% of your grade)
Class Attendance	Class attendance is strongly recommended. Material will be covered and explained in class that is not in the book. Material on tests will include information from both class instruction and the book. Classroom participation as measured with clicker responses accounts for 11% of your total grad
Classroom Citizenship	Be courteous to those around you. Do not Facebook or use social media while in class. You are expected to be attentive during class.
Comet Creed	<i>This creed was voted on by the UT Dallas student body in 2014. It is a standard that Comets choose to live by and encourage others to do the same:</i> <i>“As a Comet, I pledge honesty, integrity, and service in all that I do.”</i>
UT Dallas Syllabus Policies and Procedures	<i>The information contained in the following link constitutes the University’s policies and procedures segment of the course syllabus.</i> <i>Please go to http://go.utdallas.edu/syllabus-policies for these policies.</i>

The descriptions and timelines contained in this syllabus are subject to change at the discretion of the Professor.