

CSDS 450-SECB03-200803 (On-line)

**Speech Science: Spring 2010
January 11, 2010- April 30, 2010**

Instructor:		
Contact Info:		Telephone: Email:
Office Hours	E-mail and postings on the Q&A discussion forum will receive a response within 48 hours whenever possible, often within 24 hours. Be sure to begin the subject line of all e-mails with CSDS 450 . With the constant intrusion of spam-mail, all emails that are not readily recognizable will be deleted unopened. Online “chat” office hours: Every other Monday 6:45pm-7:45pm EST. Please see below for instructions on how to enter the online chat.	

Course Description

An introduction to speech science theory, instrumentation, and measurement. Emphasis on normal speech perception and production. 3 credits. Pre-requisite: CSDS 307 Phonetics and CSDS 313 Anatomy and Physiology of Speech and Hearing Mechanisms.

This course is being taught with the understanding that all students have taken and satisfactorily completed CSDS 307 and CSDS 313 or equivalent courses in phonetics and anatomy and physiology. Although exceptions may be made, it should be understood that any student without a strong background in these areas might need to accelerate their learning in these areas to keep up with the course information and assignments.

Required Resources

Minimum Computer and Software Requirements for Longwood Online courses can be found at www.longwood.edu/online . **Please be sure that your computer meets these requirements.**

Microsoft Word and PowerPoint are the only acceptable formats for submission of assignments.

The file extensions must either be .doc, .docx or .rtf for all MS Word documents. Do not use .wps format. Vista and Mac users must save their documents in one of the above formats before submitting them to Blackboard. Failure to submit the documents in the proper format may delay successful submission and cause assignments to be later. All later penalties will apply in this case.

Accessing the course through a high-speed Internet connection (DSL or cable) is required. Some portions of the course with video and audio clips or links to other web sites will not work without high speed access. As a result, students who don't have high-speed access on their home computer will want to make arrangements to use high speed access from another location. [Computer problems are not acceptable reasons for delays in meeting assignment due dates.](#)

Text: Ferrand, C.T. (2007). *Speech Science: An Integrated Approach to Theory and Clinical Practice, 2nd Edition*. Needham Heights, MA: Allyn and Bacon. ISBN 0-205-28508-2.

This text can be ordered through the Longwood Bookstore (<http://longwood.bkstore.com>) by clicking “*contact us*” and completing the feedback form. Be sure to include your mailing address so the text can be sent to you.

ASHA Knowledge and Skills Acquisition (KASA) Standards

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/physiological, acoustic, psychological, developmental, and linguistic and cultural correlates.

Upon successful completion of this course, students should be able to:

1. explain the physics of sound, including nature of sound and the concepts of pressure, frequency and intensity (KASA III-B)
2. describe the normal auditory capabilities with respect to auditory sensitivity, loudness and pitch perception and binaural hearing (KASA III-B)
3. identify theories and models regarding the production and perception of speech (KASA III-B)
4. explain the acoustic and physiologic characteristics of speech sounds, including phonation, articulation, and resonance (KASA III-B)
5. analyze normal production of phonemes and consonants by reading spectrograms (KASA III-B)
6. identify the instrumentation to measure the physiological functions of respiration and phonation (KASA III-B)

Honor Code:

Students are expected to abide by the Longwood University Honor Code at all times. Suspicion of any violation will be investigated and university policy will be followed. The Longwood Honor Code can be found at

<http://www.longwood.edu/judicial/the%20philosophy%20of%20The%20Honor%20Code.htm#Philosophy%20of%20the%20Honor%20Code>

Students shall write the Academic Pledge **on each assignment** before submission. Failure to do so shall result in a 2 point deduction on each assignment.

Please be advised that future speech-language pathologists are bound by the American Speech-Language-Hearing Association (ASHA) Code of Ethics. (ASHA is the national accreditation agency.) This code of ethics applies to any persons applying for membership to ASHA and should be adhered to by students aspiring to be speech-language pathologists. The Code of Ethics can be found at <http://www.asha.org/NR/rdonlyres/F51E46C5-3D87-44AF-BFDA-346D32F85C60/0/v1CodeOfEthics.pdf>.

Disability Statement:

The instructor is willing to meet reasonable accommodations for any students with a documented disability. The student should submit supporting material to the instructor. This includes the necessary

accommodations as outlined by the Disability Support Center at Longwood University (<http://www.longwood.edu/disability>). **This information must be submitted no later than 7 calendar days after the beginning of the course.**

Online Course Policies: Longwood online policies can be found at <http://www.longwood.edu/online>. On the left hand side of that screen are links to “Student Responsibilities” and “Student Support”. Be sure to review **ALL** the student responsibilities before beginning this course. The Technical Support link (http://www.longwood.edu/online/Tech_support.htm) will provide you information about how to resolve technical issues if they should arise.

Students must maintain current system software and virus definition updates. The Help Desk can assist in this matter. [Free anti-virus software](#) is available for downloading. **If your anti-virus software is not up-to-date, YOU MUST download the free anti-virus software!**

Please note that all course communication will be conducted using the Longwood e-mail address, not personal addresses. You can forward your Longwood e-mail to another address if you wish.

Assurance Statement

All students are required to review the Honor Code, Code of Ethics and On-line policies, signing an assurance statement to this fact and assuring they are keeping their virus software up-to-date. See assignment page for the assurance statement. This statement must be submitted prior to submission of any other assignment. **(No other assignments will be graded until this is received.)**

Blackboard: *Blackboard*™ will be the venue for this class. All announcements, course documents, assignments, and class discussions will take place on *Blackboard*, <http://online.longwood.edu>

Posting of Course Materials. All *PowerPoint (PPT)* presentations will be found in the course document section of *Blackboard*. The PPT presentations are designed to help guide your reading in the text, not to supplant the reading. *The text readings* are necessary for full comprehension of the material and should be completed prior to completion of any assignment. *Assignments* will be posted within each module in the course documents section of *Blackboard*. Submission of all work must be through the designated links provided for each item. Once an assignment link has disappeared, the opportunity to submit the work has expired. All work can be submitted early as all assignment links are available from the first day of the course. It is the student’s responsibility to be aware of time zone differences, due dates and times. Review the *announcement* section on a daily basis for any new information.

The drop date for the course is January 19, 2010 and the last date to withdraw without academic penalty is March 1, 2010 at noon.

Speech Science Schedule at a Glance:

Date	Topic	Reading	Assignment
January 11- January 27, 2010	The Nature of Sound	Ferrand, Chapter 2	Review syllabus and submit any questions to instructor. Submit assurance statement on Blackboard. Terminology 1: Due 1-27-10
January 28- February 10,	Nature of Sound: Clinical Applications	Text, Chapter 3	Assignment 1: Due 2-03-10 Discussion 1: Due 2-10-10

2010			Quiz 1: 2-10-09/2-11-10**
February 15- February 17, 2010	Respiratory System	Text, Chapter 4	Terminology 2: Due 2-17-10
February 18- March 3, 2010	Respiratory System: Clinical Applications	Ferrand, Chapter 5	Assignment 2: Due 2-24-10 Discussion 2: Due 3-03-10 Quiz 2: 3-03-10/3-04-10**
March 8-12 March 15- March 17, 2010	Spring Break Phonatory System	Ferrand, Chapter 6	Terminology 3: Due 3-17-10
March 18- April 1, 2010	Phonatory System: Clinical Applications	Ferrand, Chapter 7	Assignment 3: Due 3-24-10 Discussion 3: Due 3-31-10 Quiz 3: 3-31-10/4-01-10**
April 2- April 7, 2010	Articulatory System	Ferrand, Chapter 8	Terminology 4: Due 4-07-10
April 8- April 21, 2010	Articulatory System: Clinical Applications	Ferrand, Chapter 9	Assignment 4: Due 4-14-10 Discussion 4: Due 4-21-10 Quiz 4: 4-21-10/4-22-10
April 23-27, 2010 <u>April 28,</u> <u>2010/April</u> <u>29, 2010</u>	Review for Final Exam <u>Final Exam</u>	 <u>Available from</u> <u>8:00 pm EST 04-</u> <u>28-10 until 8:00 pm</u> <u>EST 04-29-10</u>	 <u>Please allow 1 hour to</u> <u>complete the comprehensive</u> <u>final exam. You will need</u> <u>high-speed access. Please</u> <u>plan accordingly.</u>

**All quizzes will available from 8:00 pm EST on the first date until 8:00 pm EST on the last date of the quiz. It is the student's responsibility to allot the proper amount of time to take the quiz. Each quiz will be timed for 30 minutes. The link will disengage after 30 minutes. Running out of time is not a technical difficulty and the quiz will not be reset in this instance. Please be advised that if you enter the quiz after 7:30pm on the due date, you will not have 30 minutes to take the quiz at it will disengage at 8:00pm; this is not a technical difficulty.

Learning Activities:

Homework Assignments

In order to incorporate the information from the text without the opportunity for hands-on labs, the majority of the course will include homework assignments in which you will implement certain principles of speech science on your own and report on the results. The assignment must be submitted via Blackboard through the designated link no later than **11 pm** by the date specified. See the schedule for due dates. All assignments are worth 100 points each for a total of 400 points.

Clinical Application Discussions

After conclusion of each topic, mini-projects and questions will be posted for discussion. Students are expected to take an active part in discussions. LU policies for discussion forums are outlined at http://www.longwood.edu/online/Discussion_Bds.htm. Please be sure to review the policies.

Postings will be graded on both the number of posts and the quality of the post. (25 points each, 100 points total.) A grading rubric for the discussions will be posted in the course information section of Bb.

Terminology Portfolio

A portfolio of speech science terminology fundamental to the profession will be developed from the list of words posted on the blackboard assignment page. The portfolio will be submitted in 4 stages, as indicated in the assignment chart above. (100 points)

Submission of Assignments

All assignments shall be submitted through the appropriate assignment link on Blackboard. Please title the file with the assignment number and your initials – as follows: assignment1ib. The links for all assignments will be available from the beginning of the course. Each assignment link will become no longer visible (inactive) at 11:00pm on each due date. Once the link is no longer visible, the opportunity to submit the assignment has passed. Work may always be submitted early.

Policy on Late Assignments: Students are expected to submit assignments by 11 pm on the due date. No late work will be accepted. It is the student’s responsibility to make note of all deadlines and submit work on time.

If you experience technical difficulties while trying to submit an assignment by the deadline or have a **significant personal emergency**, email a message stating the time and the nature of the technical problem. Only then will consideration be given to accepting a late assignment.

The drop date for the course is January 20 and the last date to withdraw without academic penalty is March 2 at noon.

Course Grade:

Terminology Portfolio:	100 pts
Assignments 4 @ 100pts each:	400 pts
Discussions 4@ 25pts each:	100 pts
Quizzes 1-4 @ 25pts each:	100 pts
Final Exam:	100 pts

Total: 800 pts

Grading Scale:

A+	784-800 pts	C+	624-639 pts
A	752 – 783 pts	C	592 – 623 pts
A-	720- 751 pts	C-	560 – 591 pts
B+	704 – 719 pts	D	480 – 559 pts
B	672 – 703pts	F	< 480 points

B-	640 – 671 pts			
----	---------------	--	--	--

Note: If you already have a bachelor's degree, you are considered a graduate student. Longwood University does not allow a grade of D for graduate students; therefore, if you earn less than 490 points, the grade will be F.