

**CSD 401**  
**Speech and Hearing Science**  
**Spring, 2012 (3 credit hours)**  
**1:00-1:50 MWF Reynolds Center, room C124**

**Melanie Lowry, MS, CCC-SLP**  
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**Office Hours are posted on my door**  
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**Course Description:** An outline of the vocal mechanism, the acoustics of voice and sound production, the human ear and the psychoacoustics of audition will be presented. Practical application of this knowledge will be emphasized. Successful completion of CSD 400, 290 and 325 will be helpful to you but there is no prerequisite.

**Required Materials:** Behrman, A. (2007). Speech and voice science. San Diego, CA: Plural Publishing.

**Course Objectives:** Upon successful completion of the course the student will demonstrate knowledge of the following objectives and the ability to integrate them into the frameworks of speech-language pathology and audiology:

- The basics of acoustics
- Fundamentals of psychoacoustics
- Body systems involved in speech production
- The neuro-physiology of speech
- The interactions of the respiratory and laryngeal systems
- Resonance of speech
- Basics of acoustic phonetics
- Theories and basic issues of speech perception
- Research tools used in speech science

**Relationship to ASHA Standards:** ASHA upholds seven Standards related to academic and clinical training as well as continuing education. This course contributes to completion of Standards III-A and III-C. You each have a KASA form on file with the department to help track your knowledge and skills as related to the Standards as you move toward obtaining your CCC.

**Students with Disabilities:** It is the policy for Harding University to accommodate students with disabilities, pursuant to federal and state law. Therefore, any student with a documented disability condition (e.g. physical, learning, psychological, vision, hearing, etc.) who needs to arrange reasonable accommodations, must contact the instructor and the Disabilities Office at the beginning of each semester. (If the diagnosis of the disability occurs during the academic year, the student must self-identify with the Disabilities Director as soon as possible in order to get academic accommodations in place for the remainder of the semester.) The Disabilities Office is located in Room 102 of the Lee Academic center, telephone (501) 279-4019.

### **Assessment Statement**

Harding University, since its charter in 1924, has been strongly committed to providing the best resources and environment for the teaching-learning process. The board, administration, faculty and staff are wholeheartedly committed to full compliance with all criteria of the Higher Learning Commission of the North Central Association of Colleges and Schools.

The University values continuous, rigorous assessment at every level for its potential to improve student learning and achievement and for its centrality in fulfilling the stated mission of Harding. Thus, a comprehensive assessment program has been developed that includes both the Academic units and Administrative and Educational Support units. Specifically, all academic units will be assessed in reference to the following Expanded Statement of Institutional Purpose: The University provides programs that enable students to acquire essential knowledge, skills and dispositions in their academic disciplines for successful careers, advanced studies, and servant leadership.

### **Course Policies:**

- Attendance is expected at each class meeting and will be recorded. It is the student's responsibility to sign the attendance sheet at each class meeting. Three absences are allowed and the final grade in the course may be lowered for each absence thereafter.
- Students are expected to read assigned material prior to class and be prepared to participate in class discussions. Students who miss class are responsible for content.
- Please don't text during class. I may not say anything to you, but I do notice it and find it unprofessional. If you have an urgent situation that requires your attention, just let me know.
- Written work must be reasonably correct in mechanics (e.g. spelling, grammar, punctuation, etc.). Points will be deducted for inadequate work.
- It is expected that students will adhere to assignment due dates. Late work will not be accepted.
- Submitting work taken directly from another source will be considered plagiarism and no credit will be given on the assignment. Cheating in all its forms is inconsistent with the Christian faith and practice and will result in sanctions up to and including dismissal from the class with a failing grade
- Students who share assignments with students taking the course in a subsequent semester may be subject to having an academic integrity sanction added to their college record.

## Course Requirements:

### Grading

Exam #1	100 points – Nature of sound
Exam #2	100 points – Respiration and phonation
Exam #3	100 points – Consonants and vowels
Lab Activities	100 points - on Moodle
Larynx/pharynx	50 points - see guidelines on Moodle
Forum	25 points – guidelines on Moodle
Final Exam	100 points - Comprehensive
Film Critique/Book Review	50 points – Guidelines on Moodle
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	625 points

Final grades will be determined as follows:

- A - 90 – 100%
- B- 80 – 89%
- C - 70 – 79%
- D - 60 - 69%
- F - below 60%

***If the whole body were an eye, where would the sense of hearing be? And if the whole body were an ear, where would the sense of smell be? But in fact, God has arranged the parts in the body, every one of them, just as he wanted them to be. I Corinthians 12:17-18***

	<b>Topic</b>	<b>Chp</b>	<b>Activity</b>	<b>Due</b>
<b>Jan 9</b>	Introductions			
<b>Jan 11</b>	Introductions	1		
<b>Jan 13</b>	Introductions			
<b>Jan 16</b>			No class	
<b>Jan 18</b>	Describing Motion			
<b>Jan 20</b>	Describing Motion	2		
<b>Jan 23</b>	Describing Motion	2		
<b>Jan 25</b>	Describing Motion	2		
<b>Jan 27</b>	Sound Waves	3		
<b>Jan 30</b>	Sound Waves	3		
<b>Feb 1</b>	Sound Waves	3		
<b>Feb 3</b>	Sound Waves	3		
<b>Feb 6</b>	Sound Waves	3		Oscillation Lab
<b>Feb 8</b>	Sound Waves			
<b>Feb 10</b>	Test #1		No class!	
<b>Feb 13</b>	Breathing	4		
<b>Feb 15</b>	Breathing	4		
<b>Feb 17</b>	Breathing	4		Respiration Lab
<b>Feb 20</b>	Phonation	5		
<b>Feb 22</b>	Phonation	5		
<b>Feb 24</b>	Phonation	5		
<b>Feb 27</b>	Phonation	5	Midterm Wk	
<b>Feb 29</b>	Phonation	5		Larynx/Pharynx
<b>March 2</b>	Phonation	6		
<b>March 12</b>	Phonation	6		
<b>March 14</b>	Phonation	6		Intensity/Fo lab
<b>March 16</b>	Phonation	6		
<b>March 19</b>	Phonation	6		s/z and MPT lab
<b>March 21</b>	Exam #2			
<b>March 23</b>	Vowels	7		
<b>March 26</b>	Vowels	7		
<b>March 28</b>	Vowels	7		VRP lab
<b>March 30</b>	Vowels	7		
<b>April 2</b>	Vowels	7		Voice Games lab
<b>April 4</b>	Vowels	7		
<b>April 6</b>	Vowels	7		Interactive Vowel
<b>April 9</b>	Consonants	8		
<b>April 11</b>	Consonants	8		
<b>April 13</b>	Consonants	8	No class	
<b>April 16</b>	Consonants	8		Film/Book Critique
<b>April 18</b>	Consonants	8		
<b>April 20</b>	Consonants	8		
<b>April 23</b>	Consonants	8		
<b>April 25</b>	Review			
<b>April 27</b>	Exam #3			

**Graduation May 5<sup>th</sup> – 10am ☺**