



## **CSD 420: Speech and Hearing Science**

| 3 credits | Prerequisite(s): CSD 222, CSD 320, CSD 330

### **Course Catalogue Description**

CSD 420: Physiologic, neurologic, and acoustic aspects of human communication, theoretical framework for speech and hearing science, and principles of acoustics applied to speech language pathology across the lifespan.

### **Course Objectives**

#### **The student will:**

1. understand the nature of sound and the clinical application of the concepts presented.
2. understand resonance and the clinical application of the concepts presented.
3. understand the articulatory system and the clinical application with relation to speech intelligibility.
4. develop their understanding of cleft palate and related disorders and clinical application of this material.
5. understand the phonatory system and the related clinical application.
6. understand the respiratory system with respect of anatomy and physiology and the clinical application of this information.
7. develop their understanding of nervous system in relation to speech production and the clinical application of this material.
8. understand models and theories related to communication

### **ASHA Knowledge and Skills Acquisition**

Standard IV-B: The applicant must have demonstrated knowledge of basic human communication and swallowing processes, including the appropriate biological, neurological, acoustic, psychological, developmental, and linguistic and cultural bases. The applicant must have demonstrated the ability to integrate information pertaining to normal and abnormal human development across the life span. (E, Exam)

In this course each student will be provided with an opportunity to demonstrate required knowledge and/or skill development. ASHA has specified that in order to be competent and prepared for a clinical fellowship upon graduation, you must achieve a level of 80% or better on each associated standard of knowledge and skill. These knowledge and skills will be assessed as delineated in the syllabus (e.g., examination, paper, presentation, project). Within this course, if a student is struggling in any knowledge and skill area, an additional learning opportunity (e.g., additional spoken or written summarizations of knowledge, project/paper revisions) may be provided to help support competency development. Regardless of the final grade in this course, if students continue to fail to achieve a competency level in an associated knowledge and skill area, then a formal remediation plan will be developed and implement. See formal remediation policy at the [School website](#).

**\*\*NOTE: THIS IS NOT A COMPREHENSIVE SYLLABUS AND CANNOT BE CONSIDERED FOR KASA REFERENCE\*\***

## **Course Texts**

### **Required Textbook**

Ferrand, C. (2014). *Speech Science: An integrated approach to theory and clinical practice* (4th ed.). Pearson (Allyn & Bacon Series). | ISBN-13: 978-0134481456 | ISBN-10: 0134481453

Other Materials: Additional readings and materials will be posted throughout the term on the course website

### **Technology Expectations**

Students will need to have technology proficiency in: PowerPoint, YouTube, FlipGrid, PDF conversion, Word Processor, PRAAT, and Moodle