



Department of Communication Sciences & Disorders
Master of Science in Speech-Language Pathology
Pre-Requisites Coursework
2023/2024 application cycle

CSD 3310 Speech Science: The Acoustical Nature of Sound and Speech: 3 credits

Introduction to the nature and acoustical properties of sound and speech: generation, propagation, and modification. Explores speech production and characteristics of speech acoustics as they relate to typical and atypical speech production and perception. Speech production subsystems of respiration, phonation, articulation, and resonance are examined in detail through the analysis of acoustic and physiological data. Examines seminal and contemporary theories of speech production and perception, research findings, clinical applications, and measurement and analysis of typical speech and voice production and perception.

CSD 3315/4420 Clinical Processes Pediatric/Clinical Processes Adult: 2 credits each

CSD 3315: Assessment and treatment principles, methods, and procedures in Speech-Language Pathology with focus on the pediatric population. PREREQ: CSD 3321 and CSD 3330, or permission of instructor.

CSD 4420: Assessment and treatment principles, methods, and procedures in Speech-Language Pathology with focus on the adult population. PREREQ: CSD 3315 or permission of the instructor.

CSD 3321 Clinical Phonetics and Phonology: 3 credits

Basic concepts in applied phonetics and phonology, emphasizing applications in communication disorders and differences. Introduction to International Phonetic Alphabet.

CSD 3325/3325L* Speech Sound Development and Disorders & Lab: 4 credits

Introduction to childhood speech development and disorders. Basic clinical principles and procedures for diagnosis and treatment of disorders of speech sound production. PREREQ or COREQ: CSD3325L. PREREQ: CSD 3321 with a grade of 'C' or better or permission of instructor.

*Required laboratory portion of CSD 3325 for emphasis in pre-speech-language pathology. Skill development in use of International Phonetic Alphabet in the transcription of typical and disordered speech. PREREQ or COREQ: CSD 3325. PREREQ: CSD 3321 with a grade of 'C' or better or permission of instructor

CSD 3330 Language Science: 3 credits

Introduction to the nature, structure and function of language with an emphasis on the structure of the English language. Includes an introduction to language analysis and language diversity.

CSD 3335 Language Development and Disorders: 3 credits

Study of the development of phonology, morphology, semantics, syntax, pragmatics and relevant nonverbal and cognitive aspects of language. Review of current theories and research. Includes etiology and characteristics of primary, secondary and acquired language disorders in children. PREREQ: CSD 3330, or permission of instructor

CSD 3341 Audiometry and Hearing Science: 3 credits

Introduction to basic hearing science, sound measurement, audiometry, tympanometry, hearing disorders, public school screening, and methods of aural rehabilitation. Review of role of audiology in human services.

CSD 3350/3350L Anatomy & Physiology of the Speech and Swallowing Mechanisms & Lab: 4 credits

Introduction to the anatomy and physiology of speech production and swallowing. Examination of structures and functions related to respiration, phonation, resonance, articulation, mastication, and deglutition. Focus on typical structures and processes and atypical structure and processes in populations with speech and swallowing disorders. COREQ: CSD 3350L.

CSD 4405 Neurological Bases of Communication Disorders: 3 credits

Fundamentals of neuroanatomy and physiology related to speech, language and hearing. Introduction to communication disorders related to neurological damage.

□ **CSD 4417 Interdisciplinary Evaluation Team (IET): 1 credit** (*recommended - not required*)

Introduction to principles, techniques of interdisciplinary evaluation. Disciplines emphasized: Audiology, Nursing, Physical Therapy, Psychology, Social Work, Special Education, Speech-Language Pathology. Equivalent to DHS 4417, NURS 4417, PSYC 4417, and SOWK 4417. PREREQ: Permission of instructor.

□ **CSD 4425 Speech Language Pathology Methods and Application: 2 credits** (*recommended - not required*)

Application of assessment and treatment principles, methods, and procedures in clinical and language disorders through classroom experiences, observation, and clinical experiences. For CSD majors only. PREREQ: CSD 3315, CSD 3325, CSD 3335, and CSD 4420 or permission of the instructor.

□ **CSD 4445 Aural Rehabilitation: 3 credits**

Aural rehabilitation of the hearing impaired. Consideration of amplification, speech reading, auditory training, and other aspects of the process.

□ **CSD 4460 Educational Audiology: 3 credits**

Overview of school-based audiology services including working within the public school system and with related professionals, legal issues, and options for providing comprehensive services to children with hearing loss and their families. **ASHA requires at least 6 credits hours of Audiology coursework. CSD 3341 & CSD 4445 satisfy this requirement.*

Notes:

- Prior to or during the Pre-Professional Program, students applying to our Master of Science in Speech-Language Pathology graduate program must show evidence of having taken the following:
 - **Biological sciences:** At least a 100-level university course with a content area related to human or animal sciences: includes biology, human anatomy and physiology, neuroanatomy and neurophysiology, human genetics, and veterinary science. Must be from a Biology department. CSD Anatomy and Physiology is not acceptable.
 - **Physical sciences course:** At least a 100-level university course. **Must** be either Physics (recommended) or Chemistry.
 - **Statistics:** At least a 100-level university course. An acceptable description would include topics such as descriptive statistics, probability, inferential, correlation, regression, measures of central tendency, t-tests, ANOVA, and hypothesis testing for one and two parameters. The course may be under Math, Statistics, Psychology, or Business as long as it meets the above criteria. *If your statistics course is older than 10 years, it is highly recommended you retake it.*
 - **Social/Behavioral Sciences course:** At least a 100-level university course. Includes Psychology, Sociology and Anthropology
- A background in Sign Language is strongly encouraged. ISU does not currently offer Sign Language online; students are encouraged to seek courses within their communities. There is not a specific course required, but basic sign language skills are beneficial to you as a communication professional.

Successful completion of the Pre-Professional Certificate Program does **NOT** ensure the student a seat in the Master of Science in Speech-Language Pathology Graduate Program. Students must apply by February 1st of the year he/she would like to enter the Master's Program.

Please visit our website for application instructions - <https://www.isu.edu/slp/programs/graduate-program/apply/>.

Department of Communication Sciences & Disorders

921 South 8th Avenue, Stop 8116 | Pocatello, ID 83209 | Phone: (208) 282-4544 | Fax: (208) 282-4571
1311 East Central Drive | Meridian, ID 83642 | Phone: (208) 373-1908 | Fax: (208) 373-1811

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