

# COMMUNICATION SCIENCES AND DISORDERS (CSD)

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## **CSD 341. Communication Sciences and Disorders. (3 Units)**

Overview of normal and disordered communication, including speech, language, hearing, and swallowing impairments. Educational and clinical requirements for entry into the speech pathology profession. Introduction to the Code of Ethics of the American Speech, Language, Hearing Association (ASHA).

## **CSD 342. Phonetics. (3 Units)**

Study of the physical and physiological bases of speech, the articulatory, acoustic and linguistic aspects of the sound system of standard and non-standard dialects of American English. Practice using the International Phonetic Alphabet (IPA) for broad and narrow transcription.

## **CSD 343. Speech and Language Development. (3 Units)**

Study of the acquisition of phonology, morphology, semantics, syntax and pragmatics in typically developing children. Includes the biological, cognitive, and social bases of language acquisition, theories of language acquisition and an introduction to the acquisition of first and second languages.

## **CSD 354. Anatomy and Physiology of the Speech and Swallowing Mechanism. (3 Units)**

Study of the anatomy and physiology of the speech and swallowing mechanism. The processes of respiration, phonation, resonance, articulation, and swallowing are included. An introduction to the central nervous system and the peripheral nervous system is provided.

## **CSD 355. Audiology and Audiometry. (3 Units)**

Anatomy and physiology of the outer, middle, and inner ear and the central auditory processing system. Characteristics of hearing disorders including etiologies and risk factors. Methods and procedures used in assessing the auditory system and management of hearing disorders.

## **CSD 356. Clinical Methods and Procedures. (3 Units)**

Introduction to general principles and procedures for assessment and treatment of individuals with communicative disorders. Basic concepts of standardized and non-standardized evaluation procedures for children and adults. Theory and application of clinical writing. Multicultural considerations will be addressed.

## **CSD 441. Speech Science. (3 Units)**

Structure and function of neuromuscular systems used in respiration, phonation, and resonance-articulation. Introduction to the psychological and acoustic aspects of speech production and perception. Students are introduced to instrumentation for acoustic and perceptual analysis of speech.

## **CSD 442. Neurology and Neurogenic Disorders. (3 Units)**

Anatomy and physiology of the nervous system as they relate to speech, language, hearing and swallowing. Clinical characteristics of neurogenic language disorders, apraxia of speech and dysarthria. Contemporary approaches to assessment and treatment. Disorders will be discussed across the lifespan.

## **CSD 443. Disorders of Articulation and Phonology. (3 Units)**

Examination of theories of normal and disordered acquisition of phonology and articulatory production. Includes phonologic assessment methods, practice in analysis of child speech samples, and contemporary approaches to intervention. Emphasis on speech profiles of special populations.

## **CSD 454. Childhood Language Disorders. (3 Units)**

Analysis of components of language and how they relate to language disorders in children. Involves multiple diagnostic categories for language impairment, risk factors for language impairment, methods of prevention, assessment and clinical management. Emphasis on linguistic and cultural diversity.

## **CSD 455. Disorders of Voice and Fluency. (3 Units)**

Etiology, assessment, and therapy for disturbances in fluency of speech with emphasis on psychological, physiological, and linguistic variables correlated to dysfluent behaviors. Etiology, characteristics, clinical assessment and therapeutic management of functional and organic voice disorders throughout the lifespan.

## **CSD 456. Aural Rehabilitation. (3 Units)**

Nature of hearing impairment and impact on communicative function in children and adults. Theories and delivery methodologies for speech reading, hearing aid use, counseling, assessment and remediation of speech and language skills, auditory training, and educational placement for children.

## **CSD 495. Special Topics in Communication Sciences and Disorders. (1-3 Units)**

Prerequisite: Consent of instructor. Advanced course of special interest for students in the selected area of study. Topic and content will vary as announced.