

# COMMUNICATION SCIENCES AND DISORDER (CSD)

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## **CSD 101 Oral Communication Enhancement (3 Credits)**

Orientation course introduces students to various methods and techniques for improving their oral communication (speech) and listening skills. Emphasis on reading and writing skills. Students' speech- language patterns and hearing acuity are professionally assessed by certified speech-language pathologists and audiologists.

## **CSD 116 Orientation to Communication Sciences and Disorders (1 Credits)**

Introduction to the professions of speech-language, pathology and audiology with emphasis on the role , of the American Speech-Language-Hearing Association and its code of ethics; certification procedures and professional nomenclature. Study of various speech-language and hearing disorders, including a discussion of academic and research aspects of speech-language pathology and audiology (web-based course).

## **CSD 211 Phonetics (3 Credits)**

Scientific study of English speech sounds, production, reception and symbolic use, including transcribing words and sentences with use of phonetics.

## **CSD 212 Speech and Language Development (3 Credits)**

Study of the normal processes of speech and language development with emphasis on language universals and the linguistic systems of sound patterns, word combining, meanings and intentionality. Examines relationship between cognition and language. The latter portion of the course introduces students to some aspects of disordered speech and language development.

## **CSD 213 Use of Computers and Other Instrumentation in Communication Sciences and Disorders (1 Credits)**

Study of basic electronics, computer hardware design, and software programs germane to the fields of speech-language pathology and audiology.

## **CSD 218 Anatomy and Physiology of the Speech Mechanism (3 Credits)**

Study of the basic structure of the organs that function in the production of speech with emphasis on the processes of respiration, phonation, resonance, and articulation, including neurological aspects of speech and language production. (web-based course).

## **CSD 311 Methods and Materials in Communication Sciences and Disorders (3 Credits)**

Introduction to contemporary diagnostic and therapeutic methods and materials used by speech- language pathologists and audiologists in schools, hospitals, clinics and rehabilitation settings. Requirements include construction of a "functional workbook (kit)" consisting of diagnostic and therapy materials, clinical activities, and tests, and demonstration of the use of these materials in clinical practicum activities.

## **CSD 312 Phonological, Articulatory and Related Language Disorders (3 Credits)**

Comprehensive study of the phonological and articulatory processes of speech, and associative disorders of oral language. Students are required to administer and interpret the results of various tests (i.e., phonological, articulation, oral language, etc.). In addition, students observe diagnostic and therapy procedures conducted by certified speechlanguage pathologists working with speech-impaired children and adults.

## **CSD 313 Introduction to Audiology and Hearing Sciences (3 Credits)**

Emphasis on the anatomy and physiology of the hearing mechanism and the disorders that can affect it. Basic audiometric techniques and procedures are taught, as well as the interpretation of hearing test results.

## **CSD 314 Audiology and Hearing Sciences II (3 Credits)**

Audiology II is a continuation to the introduction to Audiology and hearing sciences Students identify the various auditory pathologies and their associated audiological manifestations. Assessments of special populations are considered.

## **CSD 315 Neurogenic & Other Organic Communication Disorders (3 Credits)**

Introduction to the basics of neurology as they pertain to the communication processes. Overview of common neurogenic disorders of communication, including aphasia, apraxia, dysarthria, dementia and other linguistic disorders associated with traumatic brain injury, aging, substance abuse, etc.

## **CSD 320 Voice and Speech Sciences (3 Credits)**

Study of the human voice and speech production processes. The physics of sound are explored, as well as the respiratory, laryngeal, resonatory and articulatory aspects of voice and speech. Diagnostic and treatment procedures for voices and speech disorders are also reviewed. Opportunities to conduct supervised field research activities are provided.

## **CSD 413 Research Methods in Communication Sciences & Disorders (3 Credits)**

Independent research on a topic selected by the student and approved by the student's departmental advisor and completed under the guidance of that advisor. Study of the appropriate methods and procedures for data collection, analysis, interpretation and reporting. Students are expected to approach this course with the intention of formally presenting (e.g., professional conference) and/or publishing (e.g., professional publication) their research findings.

## **CSD 414 Voice and Fluency Disorders (3 Credits)**

Introduction to the etiological, evaluative or diagnostic, and therapeutic procedures used with persons with voice disorders and various types of verbal dysfluency behaviors.

## **CSD 415 Clinical Procedures in Communication Sciences & Disorders (3 Credits)**

Study of the philosophy underlying clinical procedures for speech-language pathology . Current methods used in speech-language pathology for observing communication behaviors, recording data, establishing effective reinforcement techniques, and therapeutic routines are explored. Students are expected to accumulate 15-20 hours of supervised clinical observations to satisfy the preliminary requirements for ASHA certification.

## **CSD 416 Rehabilitation of Hearing Disorders (3 Credits)**

Current procedures in aural rehabilitation, including speech reading, hearing conservation, hearing aid selection and auditory training are studied for both the hard of hearing and deaf populations from both habilitative and rehabilitative perspectives. (web-based course.)

**CSD 417 Clinical Practicum in Communication Sciences and Disorders (3 Credits)**

Clinical Practicum provides majors who have satisfactorily completed all academic prerequisites experience in offering direct supervised clinical services to persons with speech, language and/or hearing disorders. These services are rendered primarily through the NSU Speech, Language and Hearing Center located on campus, although external practicum experiences may also be available. Majors refine their therapeutic skills, as well as report writing skills for diagnostic reports, initial therapy plans, daily therapy plans, and progress reports. Interviewing and counseling procedures are reviewed. Students are expected to accumulate 20-30 hours of supervised clinical observations to satisfy the preliminary requirements for ASHA certification.

**CSD 420 Differential Diagnostic Audiology (3 Credits)**

A comprehensive review of the hearing process in health and disease; the medical aspects of hearing impairment, techniques currently in use to evaluate hearing disorders, treatment and management of patients with advanced types and degrees of auditory pathology.