

## COMMUNICATION SCIENCES & DISORDERS (CSD)

**101. Introduction to Communication Sciences & Disorders.** Credit 3 hours. A study of etiology, types, and characteristics of communication problems. An overview of the profession and concepts are presented. (Fall, Spring)

**201. Introduction to Audiology.** Credit 3 hours. The course is designed to provide students with a study of hearing, hearing disorders/impairments, hearing tests, and hearing management. Basic instruction in pure-tone air and bone conduction audiometry, masking, speech audiometry, and physiological procedures are included to acquaint students with the entire field of audiology. (Fall, Spring)

**203. Introduction to Language.** Credit 3 hours. This course will introduce the student to the basic concepts of language structure. Practice in discovering and describing language patterns will support the development of an objective approach to language differences. The course will include a survey of related topics such as animal vs. human communication and neurological and psychological issues in the study of language. (Fall)

**205. Phonetics.** Credit 3 hours. A study of the physical bases of sound production and perception, with emphasis on analysis, description and transcription of the phonological patterns of normal and disordered speech. (Spring)

**212. Speech Sound Development and Disorders.** Credit 3 hours. Prerequisites: CSD 101, 203, 205, and 213. This course will include a review of phonetics, the study of the development of the speech sound system and an examination of the identification, evaluation, and treatment of speech sound disorders. (Fall)

**213. Anatomy and Physiology of the Speech and Hearing Mechanism.** Credit 3 hours. Structure, function, and control of the anatomy and physiology involved in the speech and hearing mechanism. (Fall, Spring)

**300. Beginning Clinical Practicum in Speech, Language, and Hearing.** Credit 1 - 6 hrs. Prerequisites: CSD 201, 203, 327, 328, and minimum cumulative GPA of 2.5. Students conduct assessments, write treatment plans, and plan and implement therapeutic procedures for clients with communication disorders. Attendance at clinical staffings is required. A Laboratory fee is required for this course. (Summer, Fall, Spring)

**309. Beginning Assessment in Communication Disorders.** Credit 3 hours. Prerequisites: CSD 101, 205, 212, and 213 and cumulative GPA of 2.5 or higher or permission of the Department Head. Introduction to the terminology, major theories, types and methods of assessment used in speech-language pathology. Students will explore assessment materials, observe clinical assessment procedures, and practice professional report writing. (Fall)

**326. Acoustics and Speech & Hearing Science.** Credit 3 hours. Prerequisite: Communication Sciences and Disorders 201 and cumulative GPA of 2.5. The course is designed to provide students with basic principles concerning sound and speech production, transmission, modification, analysis and reception. The course is also designed to address the relationship of these principles to the practice of speech language pathology and audiology. (Fall)

**327. Introduction to Clinical Methods for Communication Disorders.** Credit 3 hours. Prerequisites: CSD 101, 205, 212, 213, concurrent enrollment in or prior credit for CSD 328 and a cumulative GPA of 2.5 This course presents information on the fundamentals of clinical methods in speech-language pathology. Course content covers clinical procedures to prepare students for subsequent clinical experiences with individuals with a variety of speech and language disorders. (Fall, Spring)

**328. Introduction to Clinical Experiences.** Credit 1-3 hrs. Prerequisites: CSD 101, 203, 205, 212, and 213 and concurrent enrollment in or prior credit for CSD 327, cumulative GPA 2.5 or permission of the Department Head. This course introduces students to clinical experiences across the life span and from culturally/linguistically diverse backgrounds. Twenty-five hours of observations of clinical sessions are required. Graduate students with regular admission who do not have 25 observation hours must register for this course. (Fall, Spring)

**329. Introduction to Voice and Fluency Disorders.** Credit 3 hours. Prerequisites: CSD 212, 213, and cumulative GPA of 2.5 or permission of the Department Head. This course is designed to provide a broad overview of pertinent anatomy and physiology, theories, etiologies, characteristics, assessment and treatment methods for common voice and fluency disorders. (Fall)

**365. Behavior Management Strategies for Individuals with Communication Disorders.** Credit 3 hours. Prerequisites: CSD 101 and cumulative GPA of 2.5 or higher or approval of Department Head. This course focuses on a continuum of effective clinical approaches for solving behavioral problems in individuals with communication disorders. Emphasis will be placed on strategies for discovering the underlying reasons for problematic behaviors, as well as crafting the communication component of behavioral intervention. Students will develop and demonstrate positive behavior management plans. (As Needed)

**409. Directed Readings in Communication Science Disorders.** Variable credit: 1, 2, or 3 hours. Prerequisites: Cumulative GPA of 2.5. Directed individual study of selected area(s) in speech, language, and hearing. Area(s) of study to be designated by instructor. Students may repeat the course for a total of 6 credit hours. Number of credit hours will be determined by the instructor based on the complexity and depth of the subject matter. (As Needed)

**410. Intermediate Clinical Practicum in Speech, Language and Hearing.** Credit 1 - 6 hrs. May be repeated for credit. Prerequisites: CSD 300 and 309, and a minimum cumulative GPA of 2.5, and 35 clinical contact hours. Students acquire more advanced skills in the therapeutic and assessment processes and in writing various types of professional reports. Attendance at clinical staffings is required. A Laboratory fee is required for this course. (Summer, Fall, Spring)

**411. Aural Habilitation and Rehabilitation.** Credit 3 hours. Prerequisite: CSD 201, CSD 326, and a cumulative GPA of 2.5, or permission of the Department Head. Exploration of communication training options for individuals with congenital and acquired hearing loss. Credit cannot be given for both CSD 411 and CSD 511. (As Needed)

**413. Public School Speech, Language, and Hearing Services: Methods and Materials.** Credit 3 hours. Prerequisites: CSD 212, 300, 309, 327, 328, 415, and cumulative GPA of 2.5 or permission of the Department Head. This course presents a study of the organization and delivery of SLH services in the public school setting. Course content emphasizes practical information regarding the foundation, implementation and maintenance aspects of conducting a public school SLH program. Topics to be covered include: legislation program structure, diagnostic and therapeutic methods, inclusion, the speech pathologist as a consultant and data manager. Development of I.E.P. and I.F.S.P. plans included. Credit cannot be given for both CSD 413 and CSD 513. (As Needed)

**415. Speech and Language Development.** Credit 3 hours. Prerequisite: CSD 203, CSD 205 and a Cumulative GPA of 2.5 or permission of the Department Head. A study of the major theories of language acquisition. The normal sequence of child development will be highlighted. Cultural and linguistic differences will be discussed. Credit cannot be given for both CSD 415 and CSD 515. (Spring)

**416. Management of Child Language Disorders.** Credit 3 hours. Prerequisite: CSD 415 or CSD 515 and cumulative GPA of 2.5. This course provides an overview of children's language disorders. Linguistic and extra linguistic characteristics associated with various disorders are

discussed, and the bases for differential diagnosis are provided. General and specific strategies for intervention are introduced. Credit cannot be given for both CSD 416 and CSD 516. (Spring)

**430. Introduction to Manual Communication.** Credit 3 hours. An introduction to fingerspelling and sign language, including applications for individuals with disabilities. Supervised practice in fingerspelling and signing vocabulary. (As Needed)

**440. Intermediate Assessment in Communication Disorders.** Credit 3 hours. Prerequisites: CSD 309 and a cumulative GPA of 2.5 or higher or approval of Department Head. This course is designed to provide pre-professional students with the knowledge to understand assessment in the following areas: communication, educational performance, cognitive aspects of communication, and adaptive behavior. Students will demonstrate assessment skills consistent with the scope of practice for speech-language pathology assistants. (Spring)

**447. Intermediate Manual Communication.** Credit 3 hours. Prerequisite: CSD 430 or 530 or permission of Department Head. A continuation of beginning manual communication with emphasis on American Sign Language. Applications for working with individuals with hearing impairments. Concentrated supervised practice in signing for functional communication. (As Needed)

**451. Introduction to Augmentative/Alternative Communication.** Credit 3 hours. Prerequisite: Cumulative GPA of 2.5. Course presents an overview of communication and the role of augmentative and alternative communication in educational/therapeutic programs. Attention is focused on service delivery for individuals with severe communication disorders. Assessment, intervention, program development, and expansion of existing augmentative and alternative communication systems are included. Credit cannot be given for both CSD 451 and CSD 551. (As Needed)

**500. Introductory Clinical Practicum in Communication Disorders.** Credit 1-6 hours. Prerequisites: CSD 201, 327, 328, 615, and in good academic standing, or permission of the department head. Designed for students without a bachelor's degree in speech-language pathology who are at beginning level of clinical competency and who are seeking licensure and/or certification as a speech-language pathologist. Students conduct assessments, write and implement treatment plans. Attendance at clinical staffings is required. Laboratory fee required. A Laboratory fee is required for this course. (Summer, Fall, Spring)

**510. Beginning Clinical Practicum in Communication Disorders.** Credit 1-6 hours. May be repeated for credit. Prerequisites: 25 observation hours, CSD 309, 327, and 500, and in good academic standing, or permission of Department Head. Designed for students at a beginning level of clinical competency and who are seeking licensure and/or certification as speech-language pathologists. Students acquire additional skills in therapeutic and assessment processes and write various types of professional reports. Attendance at clinical staffings is required. Laboratory fee required. A Laboratory fee is required for this course. (As Needed)

**511. Aural Habilitation and Rehabilitation.** Credit 3 hours. Prerequisite: CSD 201 or permission of the Department Head. Exploration of communication training options for individuals with congenital and acquired hearing loss. Credit cannot be given for both CSD 411 and 511. (Spring)

**513. Public School Speech, Language, and Hearing Services: Methods and Materials.** Credit 3 hours. Prerequisites: CSD 212, 309, 327, 328, 415 and 500 or permission of Department Head. This course presents a study of the organization and delivery of speech language and hearing services in the public school setting. Course content emphasizes practical information regarding the foundation, implementation and maintenance aspects of conducting a public school speech language and hearing program. Topics to be covered include: legislation program structure, diagnostic and therapeutic methods, inclusion, the speech pathologist as a consultant and data manager. Development of I.E.P. and I.F.S.P. plans included. Credit cannot be given for both CSD 413 and CSD 513. (As Needed)

**514. Clinical Practicum.** Credit 1 hour. Participation in supervised direct clinical activities dealing with audiometric evaluation and rehabilitation. Credit cannot be given for both CSD 400 and CSD 514. (As Needed)

**515. Speech and Language Development.** Credit 3 hours. A study of the major theories of language acquisition. The normal sequence of child development will be highlighted. Cultural and linguistic differences will be discussed. Credit cannot be given for both CSD 415 and 515. (Spring)

**516. Management of Child Language Disorders.** Credit 3 hours. Prerequisite: CSD 415 or CSD 515. This course provides an overview of children's language disorders. Linguistic and extralinguistic characteristics associated with various disorders are discussed, and the bases for differential diagnosis are provided. General and specific strategies for intervention are introduced. Credit cannot be given for both CSD 416 and CSD 516. (Spring)

**530. Introduction to Manual Communication.** Credit 3 hours. An introduction to fingerspelling and sign language, including applications for individuals with disabilities. Supervised practice in fingerspelling and signing vocabulary. (As Needed)

**535. Advanced Hearing Testing.** Credit 3 hours. Prerequisite: CSD 201 or permission of the Department Head. Emphasis on site of lesion tests and testing procedures that require additional information beyond the standard audiometric evaluation. Interpretation of the test results and clinical applications will be included. (As Needed)

**547. Intermediate Manual Communication.** Credit 3 hours. Prerequisite: CSD 430 or 530 or permission of Department Head. A continuation of beginning manual communication with emphasis on American Sign Language. Applications for working with individuals with hearing impairments. Concentrated supervised practice in signing for functional communication. (As Needed)

**551. Introduction to Augmentative/Alternative Communication.** Credit 3 hours. Course presents an overview of communication and the role of augmentative and alternative communication in educational/therapeutic programs. Attention is focused on service delivery for individuals with severe communication disorders. Assessment, intervention, program development, and expansion of existing augmentative and alternative communication systems are included. Credit cannot be given for both CSD 451 and CSD 551 or Special Education 457/557. (As Needed)

**552. Computer Applications for Individuals with Special Needs.** Credit 3 hours. A course designed to provide an overview of microcomputers and other technology with an emphasis on applications for special populations. Topics include: basic computer operations/adaptations, learning theories related to educational/clinical uses of technology, computer-managed instruction, and computer-assisted instruction. Awareness of technology-related ethical issues and knowledge of resources useful to computer users will be components of the course. Credit cannot be given for both CSD 452 and CSD 552 or Special Education 458/558. (As Needed)

**560. Oral Reporting/Professional Communication Skills for Speech-Language Pathologists.** Credit 3 hours. Prerequisites: CSD 213, 309, 327, 328, 415, or permission of Department Head. Students will be trained to perform a variety of oral reports, ranging from brief informal discussions to highly prepared formal case presentations and grand rounds. Students will also become skilled at organizing and writing clinical reports, educational programs and computerized report writing. Credit cannot be given for both CSD 460 and CSD 560. (As Needed)

**600. Psycholinguistics.** Credit 3 hours. Prerequisites: CSD 602, 604, 615. A survey of the processes involved in encoding and decoding language at four levels of structure: phonology (the sound system), lexicon (words), morpho-syntax (phrases and sentences), and discourse (conversation), with specific attention to disturbance affecting the normal functioning of each of these levels. (As Needed)

**602. Aphasia.** Credit 3 hours. Prerequisites: CSD 606 or permission of the Department Head. A study of aphasia syndromes, etiologies, assessment strategies and treatment options. (Spring)

**603. Advanced Clinical Practicum in Communication Disorders.** Credit 1-6 hours. May be repeated for credit. Prerequisites: CSD 602, 606, 611, 614, 200 clinical hours, and in good academic standing, or permission of Department Head. Designed for graduate students in good standing, performing at an advanced level of clinical competency and seeking licensure and/or certification as speech-language pathologist. Students administer assessment, write treatment plans, plan and implement therapeutic procedures. Emphasis is on adults with communication disorders. Attendance at clinical staffings is required. A Laboratory fee is required for this course. (Summer, Fall, Spring)

**604. Speech Science and Perception.** Credit 3 hours. Prerequisite: Admission to the master's program or permission of the Department Head. A study of the production, transmission, and perception of speech signals; anatomy, physiology, phonetics, acoustic, psychoacoustics, and acoustic cues. Laboratory experience and clinical applications will be included. ( Fall, Spring)

**606. Neurophysiological Bases of Human Communication.** Credit 3 hours. Prerequisite: Admission to the master's program or permission of the Department Head. Advanced principles in anatomy and physiology of the nervous system will be reviewed with an emphasis on usage in medical speech-language pathology. (Fall, Spring)

**607. Seminar in Audiology.** Credit 3 hours. Prerequisites: CSD 201 and admission to the master's program, or permission of the Department Head. The course is designed to provide students with an understanding of audiology specific to the scope and practice of speech-language pathology. Clinical procedures and interpretation of audiological evaluations as well as the implications of test results with regard to hearing conservation, diagnosis, and management of hearing impairment will be discussed. Information regarding an understanding of the causes and types of hearing loss will also be provided. Special topics in central auditory processing disorders, management, and assessment will be discussed. (Fall, Spring)

**608. Craniofacial Anomalies.** Credit 3 hours. Prerequisites: CSD 506 and 604 or permission of the Department Head. A study of craniofacial anomalies as they affect speech production. Assessment and management will be studied within the context of a team approach. (As Needed)

**609. Independent Research in Communication Sciences and Disorders.** Credit 3 hours. Students will design, carry out, and write, in journal style, a research project with guidance of the instructor. (As Needed)

**610. Phonological Processes and Disorders.** Credit 3 hours. Prerequisites: CSD 615. The course presents an in-depth study of the phonological component of the linguistic system with an emphasis on the assessment and treatment of phonological disorders in children. (As Needed)

**611. Intermediate Clinical Practicum in Communication Disorders.** Credit 1-6 hours. May be repeated for credit. Prerequisites: CSD 510, 617, 100 clinical hours, and in good academic standing, or permission of department head. Designed for students at an intermediate level of clinical competency and who are seeking licensure and/or certification as speech-language pathologists. Students acquire additional skills in therapeutic and assessment processes and the writing of various types of professional reports. Emphasis is on children with communication disorders. Attendance at clinical staffings is required. Laboratory fee required. (Summer, Fall, Spring)

**612. Instrumentation in Hearing, Speech and Voice.** Credit 3 hours. Prerequisite: CSD 604 or permission of the Department Head. Principles for applying instruments in the field of speech and hearing with an emphasis on clinical approaches to speech and hearing pathologies. A survey of the principal equipment and instrumentation which will be available to speech pathologists and audiologists in their professional activities within a variety of settings. (As Needed)

**613. Motor Speech Disorders.** Credit 3 hours. Prerequisite: CSD 606. Advanced survey of perceptual and physio-acoustic dimensions of dysarthria and apraxia. The course will include in-depth training in differential diagnosis of each of these disorders. In addition, applications for treatment will be addressed. (Spring)

**614. Dysphagia.** Credit 3 hours. Prerequisites: CSD 606 or permission of the Department Head. The study of swallowing disorders in all age groups from newborns to the elderly that result from a variety of medical conditions. An in depth review of the literature will include prefeeding skills of infants as well as the disorders of deglutition and aging. Students will learn to evaluate radiographic examinations and make recommendations for therapy to be carried out by a team of experts that could include physicians, nurses, caregivers, occupational and physical therapists and nutritionists. (Fall, Spring)

**615. Structure and Processing of Language.** Credit 3 hours. Prerequisite: Admission to the master's program or permission of the Department Head. This introductory survey will cover the core areas of linguistic structure: phonetics (the mode of articulation and description of speech sounds), phonology (the sound system of language), morphology (word construction), syntax (the deep and surface structure of sentences), semantics (the meaning systems of language), and pragmatics (information structure and the use of language in communicative context). In addition, the course will examine language variation, including both social and regional dialects, and language change. Rudimentary training in the analysis of language data will be included. The course will focus on the variety of human language structures as well as on universal properties of language. (Fall, Spring)

**616. Language and Literacy.** Credit 3 hours. The course emphasizes the interactive processes of language and literacy. Factors affecting the acquisition and development of literacy will be reviewed. Training in assessment procedures and intervention techniques for individuals with language-learning disorders will be stressed. (As Needed)

**617. Advanced Diagnosis of Communicative Disorders.** Credit 3 hours. Prerequisites: CSD 604, 606, 615, or permission of the Department Head. Advanced instruction in the theory, methods and current research in diagnosis of communication disorders. Clinical assignment(s) is/are a component of the class. (Fall, Spring)

**618. Augmentative and Alternative Communication Intervention.** Credit 3 hours. Prerequisite: CSD 451/551 or permission of the Department Head. The course emphasizes intervention for individuals in need of augmentative or alternate communication (AAC) systems. Intervention includes the processes of assessment and program development for individuals with severe communication disorders. Variables that affect the development and implementation of AAC systems in various service delivery settings will be a major component of the course. (As Needed)

**619. Bilingualism.** Credit 3 hours. This introduction to bilingualism will focus primarily on children. Bilingualism will be viewed from social, psychological and linguistic perspectives; both advantages and potential problems associated with bilingualism will be considered. Specific analysis will be devoted to the acquisition, use and loss of two languages. (As Needed)

**621. Principles of Communication Sciences and Disorders.** Credit 3 hours. The course presents an advanced study of concepts and methods in the field of communication disorders. (As Needed)

**622. Speech Disorders.** Credit 3 hours. Prerequisites: CSD 604 or consent of the Department Head. This course provides a detailed examination of the etiology, characteristics, assessment and intervention for articulation, fluency, voice and resonance disorders. (Spring)

**623. Special Topics in Communication Sciences and Disorders.** Credit 1-3 hours. Prerequisite: Permission of the Department Head. Selected topics in the field of communication sciences and disorders will be presented. Current issues and trends as well as traditional practices will be explored. May be repeated for a total of six hours credit. (Summer, Fall, Spring)

**624. Advanced Seminar in Language Differences and Disorders.** Credit 3 hours. Prerequisite: CSD 615 or permission of the Department Head. This course provides an expanded view of normal language development with an emphasis on cross-cultural comparison and contrast. Developmental and acquired language disorders will be differentially examined. Best practices for non-biased assessment, clinical intervention, and the ethical support of culturally/linguistically diverse populations will be explored. (Spring)

**626. Autism Spectrum Disorders.** Credit 3 hours. A study of the nature of autism, including current thinking relative to etiology, cognition, and various behavioral aspects, with emphasis on communication and socialization. Practical applications for assessment and intervention will be highlighted. (As Needed)

**627. Neuropathologies of Communication.** Credit 3 hours. Prerequisite: CSD 606. Advanced survey exploring a variety of developmental and acquired neurogenic communication disorders, including cerebral palsy, dementia, right hemisphere syndrome and traumatic brain injury. Emphasis is on such clinical applications as dynamic assessment, differential diagnosis, and approaches to intervention. (As Needed)

**628. Language Intervention for Infants and Toddlers.** Credit 3 hours. This course is a concentrated study of current models of language intervention with infants and toddlers. Topics will include a review of the normal prelinguistic and early linguistic periods, etiological issues, and dynamic assessment procedures designed for very young children. Practical applications for intervention will be emphasized throughout. (As Needed)

**629. Advanced Clinical Methods for Communication Disorders.** Credit 3 hours. Prerequisite: Admission to the master's program. This course provides an extensive review of the methods of outcomes assessment and intervention for people with various types and severities of communication disorders. Emphasis is placed on evidence-based clinical practice and an oral and written communication skills necessary for effective professional practice. (Fall)

**630. Advanced Specialty Clinical Practicum in Communication Disorders.** Credit 1-6 hours. May be repeated for credit. Prerequisites: CSD 611 and/or CSD 603, more than 200 clinical hours and in good academic standing, or permission of the department head. Designed for students seeking licensure and/or certification as speech language pathologists and who are performing at an advanced level of clinical competency. Students administer assessments, write treatment plans, plan and implement therapeutic procedures. Emphasis is on children and/or adults with communication disorders. Attendance at clinical staffings is required. Laboratory fee required. (Summer, Fall, Spring)

**631. Counseling in Communication Disorders.** Credit 3 hours. Prerequisite: CSD Major or permission of Department Head. The course emphasizes active listening and interpersonal communication principles and counseling approaches that are within the scope of practice in speech-language pathology and audiology to guide decision-making by individuals with communication disorders and their families. (As Needed)

**632. Seminar in Voice and Resonance.** Credit 3 hours. Prerequisite: CSD 604. A study of the etiologies, characteristics, assessment strategies, and treatment procedures associated with disorders of voice and resonance in pediatric and adult populations. (Fall)

**633. Seminar in Fluency.** Credit 3 hours. Prerequisite: CSD 604. A study of the etiologies, characteristics, assessment strategies, and treatment procedures associated with disorders of fluency in pediatric and adult populations. (Spring)

**687. Research Methods in Communication Sciences & Disorders.** Credit 3 hours. Principles, procedures, and techniques of research with an intensive survey of scientific investigations in communication sciences and disorders and related fields. Emphasis on practical application for clinicians. (Fall)

**770. Thesis.** Credit 1-6 hours each semester, with six (6) hours needed for graduation. The student must enroll in the thesis course each semester the thesis is in progress. The thesis is graded Pass/Fail. (As Needed)