Communication Sciences and Disorders Courses (CSD)

This is a list of all communication sciences and disorders courses. For more information, see Communication Sciences and Disorders.

CSD:1000 First-Year Seminar
Small discussion class taught by a faculty member; topics chosen by instructor; may include outside activities (e.g., films, lectures, performances, readings, visits to research facilities). Requirements: first- or second-semester standing.

CSD:1001 CLAS Master Class

CSD:1015 Introduction to Speech and Hearing Processes and Disorders
Introduction to communication sciences and disorders field; clinical and research works; wide range of readings; survey course with less emphasis on specific disorders.

CSD:1200 Intellectual and Developmental Disabilities
Introduction and overview of issues pertaining to children and adults with intellectual or developmental disabilities (IDD); focus on their communication needs, relationship with the broader community, and careers which serve this population; interaction with individuals with IDD, their family members, professionals; lifespan and health issues, genetics, diagnosis, literacy, historical perspectives, adaptive arts and theater, disabilities in the media, social life and sexuality, issues specifically relevant to aging, and controversial topics. GE: Diversity and Inclusion.

CSD:1800 Aging Matters: Introduction to Gerontology
Overview of the field of gerontology from a bio-psycho-social framework; how the human body and brain age, effects of these biological changes on physical and cognitive functions, and interaction of these individual factors with societal contexts; broad perspective to give students a foundation in gerontology, paving the way for more advanced courses in biology of aging, psychology of aging, and global aging; for students from a wide range of disciplines and levels, no prior knowledge of aging required. GE: Social Sciences. Same as ASP:1800, NURS:1800, SSW:1800, TR:1800.

CSD:2110 Phonetics: Theory and Applications
Basic concepts: articulatory and acoustic description of speech sound production, dialect variations, and language differences; development of phonetic transcription skills with emphasis on English phonetics and clinical applications to developing and disordered speech.

CSD:2111 Basic Acoustics for Speech and Hearing
Principles of sound, simple harmonic motion, sound pressure and intensity, decibels, complex waves, Fourier analysis, resonance and filters, distortion, transmission of sound. Requirements: completion of departmental math requirement (MATH:1440 or MATH:1460 or MATH:1850).

CSD:2140 Manual Communication
Training in use of sign systems in manual communication.

CSD:3097 Honors Seminar
Research topics and procedures in speech and hearing sciences; ongoing faculty research, research opportunities, possible research projects. Requirements: honors standing with intent to complete an honors thesis.

CSD:3102 Basics of Hearing for the Non-Major
Hearing is fundamental to successful functioning in life, yet few people understand the fundamentals of hearing, or the typical causes of hearing loss, such as excessive exposure to loud music; overview of mechanisms, breakdowns, and different rehabilitation options; beneficial for classroom teachers or healthcare professionals who work with hearing loss populations.

CSD:3112 Anatomy and Physiology of Speech Production
Normal anatomy and physiology of structures used to produce speech; principles and methods for instrumental study of speech production.

CSD:3113 Introduction to Hearing Science
Normal auditory process; anatomy and physiology of auditory system; subjective correlates of auditory stimuli.

CSD:3116 Basic Neuroscience for Speech and Hearing
Basic anatomy, physiology of central nervous system; emphasis on neural systems involved in normal and disordered communication. Offered fall semesters. Requirements: biology, zoology, or physiology course. Same as LING:3116.

CSD:3117 Psychology of Language
Introduction to scientific study of language use; language approached from a multidisciplinary perspective, integrating theories and methods of psycholinguistics, neuropsychology, and communication sciences and disorders. GE: Social Sciences. Same as LING:3117.

CSD:3118 Language Acquisition

CSD:3122 Speech Production: Anatomy and Physiology
Anatomy and physiology of respiratory, phonatory, and articulatory systems; systems' roles during speech production; approaches to instrumental assessment of speech physiologic events. Requirements: non-major.

CSD:3185 Hearing Loss and Audiometry
Introduction to profession of audiology; overview of hearing disorders, evaluation, and treatment; basic pure-tone and speech audiometry.
CSD:3187 Early Literacy Instruction for Young Children 3 s.h. Service-learning involving lecture, class discussion, and student participation in an early literacy program for preschoolers; concepts and skills necessary to conduct story time groups with young children that target development of print knowledge; application of learning by reading to small groups of preschool children. Recommendations: CSD:3118.

CSD:3993 Research Practicum arr. Individual or small group participation in faculty research projects.

CSD:4098 Honors Thesis 2 s.h. Close work with a faculty mentor.

CSD:4114 Introduction to Voice Disorders 2 s.h. Basic foundations for management of voice disorders.

CSD:4115 Structural Disorders 2 s.h. Therapy approaches used to treat speech production and swallowing disorders associated with disorders that affect structure and physiology of the speech and swallowing mechanism; basic knowledge necessary for clinical practice by clinicians who do not specialize in management of patients with head and neck cancer, cleft palate, or neurological disorders.

CSD:4120 Introduction to Clinical Methods and Observation 2 s.h. Observation of the diagnosis and treatment of a wide range of speech, language, or hearing disorders in a variety of settings; basic understanding of evaluation process, goal setting, behavior management, pacing of therapy, shaping of behavior, tracking performance/learning, and professional and ethical behavior through observation of clinical interactions; completion of 25 hours of observation as required by the American Speech-Language-Hearing Association for obtaining national certification. Recommendations: senior or graduate standing in communication sciences and disorders.

CSD:4145 Developmental Language Disorders 3 s.h. Nature of developmental disorders; basic concepts including behavioral characteristics, developmental patterns, and etiology theories; assessment and intervention principles in semantics, morphology, and syntax.

CSD:4148 Developmental Speech Disorders 3 s.h. Review of typical phonological development in children; introduction to assessment and intervention practices for articulation and phonological disorders in children; may include apraxia, cerebral palsy, and cleft palate.

CSD:4165 Communication Disorders and Aging 2 s.h. Introduction to speech, language, and hearing processes and disorders among older adults; survey of characteristics of communication and communication breakdown, remediation, and strategies for improving communication with older adults with communication disorders; primarily for nonmajors and service providers other than speech-language pathologists and audiologists. Same as ASP:4165.

CSD:4183 Introduction to Stuttering 2 s.h. Theoretical perspectives on the nature of stuttering including onset and development, basic phenomena, and beginning treatment principles.

CSD:4186 Problems: Speech/Hearing Processes and Disorders arr. Independent readings or research experience through mutual arrangement between student and faculty; goals and requirements determined by participating faculty member.

CSD:4244 Rehabilitative Audiology 3 s.h. Theory, procedures for assessment, and rehabilitation of speech, hearing, and language deficits of people with hearing impairment.

CSD:5104 Language Disorders in School-Aged Children 3 s.h. Emphasis on elementary grades; usually taken in conjunction with EDTL:4192, which provides approximately 70 hours of supervised clinical practice in elementary schools. Recommendations: primarily for communication sciences and disorders majors. Same as EDTL:5104.

CSD:5135 Foundations of Clinical Practice I 2 s.h. Basic concepts of clinical practice including models of diagnosis, fundamentals of clinical data collection and measurement, treatment planning, and professional writing. Corequisites: CSD:4145.

CSD:5136 Foundations of Clinical Practice II 1 s.h. Advanced concepts of clinical practice including professionalism, clinical decision making, developing client-clinician alliance, examining biases and prejudices in clinical practice, and developing empathy.

CSD:5137 Foundations of Clinical Practice III 1 s.h. Advanced principles of clinical practice including risk management, public policy, and models of third-party reimbursement; professional issues.

CSD:5146 Neurogenic Disorders of Language 3 s.h. Overview of communication disorders secondary to acquired brain damage in adults; focus on aphasia, communication disorders arising from dementia, right-hemisphere stroke, traumatic brain injuries; general principles of diagnosis and intervention.

CSD:5203 Counseling in Communication Disorders 1 s.h. Development of appropriate intervention plans that meet client/patient needs in collaboration with client/patient and relevant others; communicating effectively and recognizing needs, values, preferred mode of communication, and cultural linguistic background of client/patient, family, caregivers, relevant others; providing counseling to clients/patients, family, and caregivers regarding communication and swallowing disorders.

CSD:5206 Language Disorders: Birth to Five Years 3 s.h. Disorders resulting from phonological, semantic, pragmatic, and morphosyntactic deficits; receptive and expressive problems; special assessment and intervention procedures.

CSD:5213 Voice Habilitation 2 s.h. Application of methods of intervention in development, training, rehabilitation of vocal behavior; motor learning, efficacy of treatment strategies, factors affecting compliance with recommended therapy. Offered fall semesters. Same as MUS:5555.

CSD:5219 Fundamentals of Laboratory Instrumentation 2 s.h. Introduction to instrumentation commonly used in research in speech and hearing sciences; basic audiometric calibration.

CSD:5222 Gross Anatomy of Speech/Voice Production 2 s.h. Anatomy of speech and hearing mechanisms; instruction in dissection techniques; laboratory.
CSD:5223 Pediatric Feeding and Swallowing Disorders 1 s.h.
Development of anatomy and physiology of feeding and swallowing in infants and children; assessment and treatment of pediatric feeding and swallowing disorders. Prerequisites: CSD:4115.

CSD:5224 System and Signal Theory for Speech and Hearing Science 2-3 s.h.
Introduction to signals and systems with emphasis on their relevance to the fields of audiology and speech-language pathology. Requirements: introductory calculus.

CSD:5233 Aphasia 2 s.h.
Assessment, diagnosis, and treatment of aphasia and other acquired language and cognition-based communication disorders. Corequisites: CSD:5136. Requirements: CSD:5146 or a course that provides an overview of acquired language disorders.

CSD:5234 Acquired Cognitive-Communication Disorders arr.
Cognitive, neuropsychological, and social aspects of communication and the management of acquired cognitive-communication disorders associated with traumatic brain injury, right hemisphere damage, and neurodegenerative diseases.

CSD:5236 Neurogenic Disorders of Speech and Swallowing 3 s.h.
Provides future speech-pathologists with a strong foundation for career-long learning about the nature and classification of neurogenic motor-speech and swallowing disorders, symptomatology, etiology, diagnosis, treatment, and management options.

CSD:5237 Cleft Palate and Related Disorders 2 s.h.

CSD:5240 Hearing Aids I 3 s.h.
Hearing aids and diagnostic procedures; laboratory emphasis on measurement procedures.

CSD:5246 Advanced Audiology 3 s.h.
Theory and procedures for assessment of hearing loss in adult and pediatric populations; experience in test administration through supervised laboratory sessions.

CSD:5253 Speech Perception in Listeners with Hearing Loss 1-2 s.h.
Introduction to study of speech perception in listeners with normal hearing and those with hearing loss; overview of speech acoustics; theories of speech perception; contributions of auditory, visual, and indexical (talker-specific) information in speech signal; assessment techniques; benefits of hearing aid and/or cochlear implant use; factors influencing speech perception by children and adults with hearing loss.

CSD:5255 Educational Audiology 2 s.h.
Training in skills necessary for working with school-age population; case management and aural rehabilitation, amplification and classroom hearing technology, identification and assessment practices, federal legislation that affects services. Requirements: CSD:5240 for Au.D. students.

CSD:5256 Anatomy and Physiology of Hearing 3-4 s.h.
Anatomy of auditory system, cochlear mechanics, and electrophysiology of peripheral and central auditory nervous system; laboratory emphasis on physiological techniques for study of ear.

CSD:5260 Augmentative and Alternative Communication 2 s.h.
Theories, assessment, and intervention in augmentative and alternative communication (AAC) for individuals with severe communication disorders resulting from a variety of developmental and acquired conditions.

CSD:5282 Phonological Development and Disorders 2 s.h.
Advanced topics in phonological development and disorders; current theoretical approaches to phonological analysis and typical phonological acquisition applied to assessment and intervention with children who have phonological disorders.

CSD:5283 Clinical Problems 1-2 s.h.
Issues and approaches to treatment of children and adults.

CSD:5301 Practicum: Speech-Language Pathology arr.

CSD:5304 Speech Pathology Outplacement: School 0-4 s.h.
Supervised teaching and observation in speech-language pathology in an elementary school setting.

CSD:5305 Speech Pathology Outplacement: Non-School 0-4 s.h.
Supervised clinical work and observation in speech-language pathology in a non-school setting.

CSD:5310 Scientific Writing 3 s.h.
Principles of writing for scientific posters, journal articles, grant proposals; effective communication of concepts and data.

CSD:5311 Audiology Clinic Management and Community Engagement 2 s.h.
Variety of professional issues important to clinical practice; incorporates professional and community engagement as well as service learning; topics directly related to clinical work and covered by clinical faculty and guest speakers with special expertise in each area; student presentations. Requirements: M.A. professional emphasis or Au.D. enrollment.

CSD:5313 Accounting and Marketing in Audiology Business Practice 2 s.h.
Introduction to business aspects of developing and managing an audiology practice related to accounting and marketing; varied professional issues important to clinical practice; topics covered by clinical faculty and guest speakers with special expertise in each area; student presentations. Requirements: M.A. professional emphasis or Au.D. enrollment.

CSD:5314 Audiology Student Teaching arr.

CSD:5315 Clinical Rotations in Audiology arr.

CSD:5316 Professional, Ethical, and Legal Issues in Audiology Business Practice 2 s.h.
Introduction to business aspects of developing and managing an audiology practice related to professional liability, certification, and licensure; legal and ethical issues in business practice; varied professional issues important to clinical practice; topics directly related to clinical work and covered by clinical faculty and guest speakers with special expertise in each area; student presentations. Requirements: M.A. professional emphasis or Au.D. enrollment.
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<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>CSD:5317</td>
<td>Compliance, Billing, Coding, and Reimbursement in Audiology Business Practice</td>
<td>2 s.h.</td>
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<tr>
<td>CSD:5320</td>
<td>Applied Statistics and Principles of Evidence-Based Practice in Audiology</td>
<td>2 s.h.</td>
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<tr>
<td>CSD:5350</td>
<td>Seminar in Supervision</td>
<td>1 s.h.</td>
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<tr>
<td>CSD:5511</td>
<td>Introduction to Doctoral Research</td>
<td>1 s.h.</td>
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<tr>
<td>CSD:6101</td>
<td>Cognitive Science of Language Proseminar I</td>
<td>3 s.h.</td>
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<tr>
<td>CSD:6102</td>
<td>Cognitive Science of Language Proseminar II</td>
<td>3 s.h.</td>
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<td>CSD:6202</td>
<td>Methods of Teaching Voice</td>
<td>3 s.h.</td>
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<td>CSD:6230</td>
<td>Advanced Hearing Science</td>
<td>2 s.h.</td>
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<td>CSD:6242</td>
<td>Hearing Aids II</td>
<td>3 s.h.</td>
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<td>CSD:6245</td>
<td>Pediatric Audiology</td>
<td>3 s.h.</td>
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<td>CSD:6247</td>
<td>Medical Audiology</td>
<td>2 s.h.</td>
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<td>CSD:6290</td>
<td>Auditory Evoked Potentials</td>
<td>3 s.h.</td>
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<td>CSD:6291</td>
<td>Vestibular Assessment and Rehabilitation</td>
<td>3 s.h.</td>
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<tr>
<td>CSD:6292</td>
<td>Advanced Rehabilitative Audiology</td>
<td>3 s.h.</td>
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<tr>
<td>CSD:6293</td>
<td>Vestibular Rehabilitation</td>
<td>2 s.h.</td>
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<tr>
<td>CSD:6294</td>
<td>Cochlear Implants</td>
<td>1-3 s.h.</td>
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<td>CSD:6247</td>
<td>Medical Audiology</td>
<td>2 s.h.</td>
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<tr>
<td>CSD:6249</td>
<td>Medical Audiology</td>
<td>2 s.h.</td>
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<td>CSD:6311</td>
<td>Professional Issues in Audiology</td>
<td>1 s.h.</td>
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<tr>
<td>CSD:6312</td>
<td>Medical Audiology</td>
<td>1 s.h.</td>
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<td>CSD:6313</td>
<td>Medical Audiology</td>
<td>1 s.h.</td>
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<td>CSD:6314</td>
<td>Medical Audiology</td>
<td>1 s.h.</td>
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<td>CSD:6315</td>
<td>Professional Seminar</td>
<td>1 s.h.</td>
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<td>CSD:6316</td>
<td>Advanced Externship in Audiology</td>
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<tr>
<td>CSD:6317</td>
<td>Introduction to business aspects of developing and managing an audiology practice related to business start-up as well as short- and long-range business planning; interprofessional education and practice; interprofessional education/interprofessional practice (IPE/IPP) training focuses on students’ collaboration with multiple service providers from other professions in order to improve outcomes for individuals, families, and/or communities served; topics are covered by clinical faculty and guest speakers with special expertise in each area; presentations by students. Requirements: M.A. professional emphasis or Au.D. enrollment.</td>
<td>1 s.h.</td>
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<td>CSD:6318</td>
<td>Hearing Loss Prevention</td>
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<tr>
<td>CSD:6515</td>
<td>Professional Seminar</td>
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**Notes:**
- CSD:5317: Introduction to business aspects of developing and managing an audiology practice related to compliance, billing, coding, and reimbursement; varied professional issues important to clinical practice; topics covered by clinical faculty and guest speakers with special expertise in each area; student presentations. Requirements: M.A. professional emphasis or Au.D. enrollment.
- CSD:5320: Combined application of statistics and principles of evidence-based clinical practice with emphasis on applications in audiology and hearing science; review of statistical techniques widely used in audiology research including nonparametric and descriptive statistics, correlation, regression, and ANOVA; examples taken from studies published in scientific journals in communication sciences and disorders; principles of evidence-based practice that focus on topics and methods of establishing treatment efficacy, meta analyses, levels of evidence, and methods of assessing research quality. Requirements: introductory course in statistics.
- CSD:6202: Attitude, musicianship, foreign language aptitude, physical and emotional characteristics; mental images used to modify respiratory, phonatory, articulatory behavior; vocal hygiene; performance anxiety; student-teacher relationships; administration in vocal schools, professional organizations. Same as MUS:6520.

**Communication Sciences and Disorders Courses (CSD)**
CSD:6519 Seminar: Evidence-Based Practice  2 s.h.
Introduction to design and conduct of research and evidence-based clinical practice. Offered fall semesters. Recommendations: clinical graduate standing in audiology or speech-language pathology.

CSD:6530 Seminar Language Acquisition on Multiple Time Scales  3 s.h.
Understanding native language acquisition by considering change over shorter (minutes, hours, days, weeks) and longer (months, years, decades) time spans; use of evidence concerning the language acquisition of individuals with childhood language impairments (specific language impairment and language learning disabilities) as these conditions allow a sort of natural experiment wherein learning and development across domains and across time can be "pulled apart." Requirements: Ph.D. enrollment.

CSD:6538 Seminar: Hearing Science  1 s.h.
Varied topics related to auditory function, assessment, and rehabilitation; discussion based.

CSD:7238 Capstone Requirement  1 s.h.
Work with a faculty mentor to complete a project that focuses on an area of student's interest.

CSD:7590 Research  arr.
Individual laboratory research training in speech-language pathology or audiology.