

## Course Descriptions

<b>Fall</b>	<p><b>CSD 302 Anat. &amp; Phys.- Peripheral Hearing</b> Gross and fine structure; function of the peripheral auditory system.</p> <p><b>CSD 401 Signals, Systems &amp; Acoustics for the Communication Sciences</b> Introduction to the measurement, analysis and synthesis of acoustic signals.</p> <p><b>CSD 423 Evaluation of Peripheral Hearing</b> Basic audiometric and immittance techniques; interpretation of test results. Lecture and laboratory.</p> <p><b>CSD 423 Lab</b></p> <p><b>CSD 409-1 Foundations of Clinical and Professional Practice- Introduction</b> Professional issues for audiologists, including professional communication, emotionally intelligent leadership, clinical decision-making theory and practice, critical thinking, and theoretical-clinical integration of knowledge and skills. 1. Introduction to the Profession</p> <p><b>Clinic Enrollment</b></p> <p><b>Clinical Skills Benchmark Exam</b></p>
<b>Winter</b>	<p><b>CSD 306 Psychoacoustics</b> Principles underlying perception of pitch, loudness, auditory space, auditory patterns, and speech. Psychophysical procedures for studying psychoacoustics and the impact of hearing impairment are considered.</p> <p><b>CSD 411 Hearing Aids I</b> Electroacoustic characteristics of hearing aids, selection of individual and group amplification systems, and client management. Lecture and laboratory. Prerequisites: CSD 423-0 or consent of instructor.</p> <p><b>CSD 411 Lab</b></p> <p><b>CSD 422 Anat. &amp; Phys. of Central Hearing</b> Neuroanatomical and neurophysiological aspects of the central auditory pathway.</p> <p><b>CSD 409-2 Foundations of Clinical and Professional Practice- Leadership</b></p> <p><b>Clinic Enrollment</b> Rules and regulations of managed care, pricing and delivery models, business planning and marketing.</p> <p><b>Clinical Skills Benchmark Exam</b></p>
<b>Spring</b>	<p><b>CSD 406 Medical Aspects of Audiology</b> A series of modules on four medical aspects of audiology: embryology, genetics, molecular biology, and pharmacology/ototoxicity. Topics related to both the auditory and vestibular systems are covered within each module.</p> <p><b>CSD 408-1 Business Practices (0.5)</b> Legal, ethical, and governmental influences on the profession of audiology, applicable to all work settings and across all practice models. The audiologists' role in healthcare, legal and ethical requirements, the importance of appropriate documentation, and foundations of coding and reimbursement.</p> <p><b>CSD 420 Pathologies</b> Physiologic abnormalities of the auditory system that result in hearing impairments.</p> <p><b>CSD 425 Electrophysiology of the Human Auditory System</b> Neuroanatomical and neurophysiological bases of human auditory evoked responses; administration and interpretation of the procedures used in evoked response testing; and relationship between pathophysiology and evoked response results. Hands-on laboratory experience.</p> <p><b>CSD 425 Lab</b></p> <p><b>CSD 409-3 Foundations of Clinical and Professional Practice- Integration (0.5)</b></p> <p><b>Clinic Enrollment</b> Professional issues for audiologists, including professional communication, emotionally intelligent leadership, clinical decision-making theory and practice, critical thinking, and theoretical-clinical integration of knowledge and skills. 1. Introduction to the Profession. 2. Leadership. 3. Integration. 4. Critical Thinking. 5. Cross-Cultural Competency. 6. Alternate Delivery Models. 7. Ethics. 8. Supervision.</p> <p><b>Clinical Skills Benchmark Exam</b></p>
<b>Summer</b>	<p><b>CSD 419 Pediatric Assessment</b> Etiological factors; hearing screening and assessment; implications of hearing impairment in infants and young children; sensory aids; treatment programs; and parent counseling. Prerequisites: CSD 423-0 or consent of instructor.</p>

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**CSD 428 Fundamentals of Vestibular Science** Introduction to theoretical foundations of vestibular science, function testing and management. Topics include the structure and function of the vestibular system, other sensory and motor systems necessary for balance, vestibular pathology, and nonvestibular sources of dizziness and tinnitus.

**CSD 522 Hearing Loss Prevention and Conservation (0.5)** The impact of environmental noise on people and the hearing mechanism, current practices in hearing conservation and prevention, and laws, regulations, and policies related to noise and hearing. Experience in measurement of noise sources.

**CSD 409-4 Foundations of Clinical and Professional Practice- Critical Thinking (0.5)**

Clinic Enrollment Professional issues for audiologists, including professional communication, emotionally intelligent leadership, clinical decision-making theory and practice, critical thinking, and theoretical-clinical integration of knowledge and skills. 1. Introduction to the Profession. 2. Leadership. 3. Integration. 4. Critical Thinking. 5. Cross-Cultural Competency. 6. Alternate Delivery Models. 7. Ethics. 8. Supervision.

**Clinical Skills Practical Exam**

## YEAR 2

**Fall CSD 424 Eval. & Treatment of CAPD (0.5)** Neurobiological bases of Central Auditory Processing Disorders (CAPD), administration and interpretation of CAPD test measures, and remediation and management plans for patients diagnosed with CAPD.

**CSD 427 Otoacoustic Emissions (0.5)** Theoretical and practical considerations of otoacoustic emissions; clinical applications; interpretation of test results.

**CSD 429 Vestibular Assessment & Treatment** Evaluation and treatment of individuals with balance disorders, including electrophysiologic evaluation of the vestibular system.

**CSD 508 Capstone Research Methods** Seminar in contemporary research practices and procedures in clinical audiology.

**CSD 409-5 Foundations of Clinical and Professional Practice- Cross-Cultural Competency**

**Clinic Enrollment** Professional issues for audiologists, including professional communication, emotionally intelligent leadership, clinical decision-making theory and practice, critical thinking, and theoretical-clinical integration of knowledge and skills. 5) Cross-Cultural Competency.

**Winter CSD 407 Implants** Cochlear implants and other implantable hearing devices. Candidacy, device management, and performance with various

**CSD 410 Biological Foundations of Speech & Music** Anatomy and physiology of the central auditory pathway, experience-related neural plasticity, right/left brain specialization, audiovisual integration, auditory learning and perception, and neural encoding of speech and music. Crosslisted with CSD 310-0 and SAI 502-0. Prerequisite: junior standing or consent of instructor.

**CSD 570-1 Seminar: Capstone** Development and execution of project relevant to clinical audiology. First Quarter: critical review of clinical research. Second Quarter: research methods for audiology. Third Quarter: professional writing and communication.

**CSD 409-6 Foundations of Clinical and Professional Practice- Alternate Delivery Models**

**Clinic Enrollment** Professional issues for audiologists, including professional communication, emotionally intelligent leadership, clinical decision-making theory and practice, critical thinking, and theoretical-clinical integration of knowledge and skills.

**Capstone Progress Presentation**

**Spring CSD 408-2 Business Practices (0.5)** Rules and regulations of managed care, pricing and delivery models, business planning and marketing.

**CSD 414 Hearing Aids II** Advanced amplification, including alternatives to traditional hearing aids such as over-the-counter (OTC) amplification and personal sound amplification processors (PSAPs). Hearing assistive technology, and personal and group amplification options. Focus on

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adult device use.

**CSD 521 Cognition and Aging (0.5)** A seminar devoted to issues related to older adults, including changes in health and cognition with age. Current knowledge relevant to older adults, and discussion of scientific literature relevant to aging and cognition. Emphasis on using current information to guide clinical decisions.

**CSD 523 Assess. & Mgmt. of Tinnitus & Sound Tolerance (0.5)**

**CSD 570-2 Seminar: Capstone** Development and execution of project relevant to clinical audiology. First Quarter: critical review of clinical research. Second Quarter: research methods for audiology. Third Quarter: professional writing and communication.

**CSD 409-7 Foundations of Clinical and Professional Practice- Ethics (0.5)** Professional issues for audiologists, including professional communication, emotionally intelligent leadership, clinical decision-making theory and practice, critical thinking, and theoretical-clinical integration of knowledge and skills. 1. Introduction to the Profession. 2. Leadership. 3. Integration. 4. Critical Thinking. 5. Cross-Cultural Competency. 6. Alternate Delivery Models. 7. Ethics. 8. Supervision.

**Clinic Enrollment**

**Capstone Progress Presentation**

**Summer CSD 519 Pediatric Amplification & Educational Audiology**

**CSD 570-3 Seminar: Capstone** Development and execution of project relevant to clinical audiology. First Quarter: critical review of clinical research. Second Quarter: research methods for audiology. Third Quarter: professional writing and communication.

**CSD 409-8 Foundations of Clinical and Professional Practice- Precepting**

**Clinic Enrollment**

**Capstone Poster Presentation**

## YEAR 3

**Fall CSD 580-1 Externship**

**Winter CSD 580-2 Externship**

**Spring CSD 580-3 Externship**

**Summer CSD 580-4 Externship**