COMMUNICATION SCIENCES AND DISORDERS

College of Health and Human Services

Program Description

The fields of Speech-Language Pathology and Audiology are concerned with disorders of speech, language, communication, swallowing, and hearing. A Speech-Language Pathologist is trained to diagnose and treat language, speech, swallowing and cognitive disorders. An Audiologist is trained to identify impairments and dysfunction of auditory, balance, and other related systems.

The Department offers a Bachelor of Science degree in Communication Sciences and Disorders and a Master of Science degree in Communication Sciences and Disorders. The Bachelor of Science degree provides a background in the theoretical and clinical foundations of Speech-Language Pathology and Audiology. The Master's degree provides professional training for a career in Speech-Language Pathology. The Department also offers a Second Bachelor of Science degree in Communication Sciences and Disorders through the College of Continuing Education. The Doctor of Audiology Degree (Au.D.) prepares students for clinical practice as Audiologists.

Employment as a Speech-Language Pathologist in California requires both a Master's degree and a credential or license. Completion of the Master's degree provides the training necessary for students to qualify for the American Speech-Language-Hearing Association's Certificate of Clinical Competence in Speech-Language Pathology. California State License as a Speech-Language Pathologist and the Speech-Language Pathology Services Credential for working as a Speech-Language Pathologist in the California public schools. The Department also prepares students to apply for the Special Class Authorization, required to teach a classroom for children with language disorders. Employment as an Audiologist requires a clinical doctorate of Audiology (Au.D) and appropriate certification.

The broad, yet challenging, nature of the Bachelor's degree in Communication Sciences and Disorders prepares students to apply for graduate study in the fields of speech-language pathology and audiology and for employment requiring a background in human development, communication, health, and education. Graduates have pursued further education and work in the fields of special education, counseling, and rehabilitation, as well as careers in the health insurance industry, disability law, career advising, and government health programs.

Degree Programs

BS in Communication Sciences and Disorders (http://catalog.csus.edu/colleges/health-human-services/communication-sciences-disorders/bs-in-communication-sciences-and-disorders/)


MS in Communication Sciences and Disorders (http://catalog.csus.edu/colleges/health-human-services/communication-sciences-disorders/ms-in-communication-sciences-and-disorders/)

Accreditation

Communication Sciences and Disorders Master of Science (M.S.) Program

In addition to California State University, Sacramento’s full accreditation by the Western Association of Schools and Colleges Senior College and University Commission (WSCUC), the Communication Sciences and Disorders Master of Science (M.S.) education program in Speech-Language Pathology at California State University, Sacramento is accredited by the Council on Academic Accreditation in Audiology and Speech-Language Pathology of the American Speech-Language-Hearing Association, 2200 Research Boulevard #310, Rockville, Maryland 20850, 800-498-2071 or 301-296-5700. Current period of 8 years beginning December 1, 2019 through November 30, 2027.

The Speech-Language Pathology Services Credential with or without Special Class Authorization is approved by the California Commission on Teacher Credentialing (CCTC)

Doctor of Audiology (Au.D.) Program

The Doctor of Audiology program has received approval from the CSU Chancellor’s Office and the Western Association of Schools and Colleges (WASC) Senior College and University Commission (WSCUC). In addition, the Accreditation Commission for Audiology Education (ACAE) has granted the program “Developing Status” and the Doctor of Audiology (Au.D.) education program in audiology at California State University, Sacramento is a Candidate for Accreditation by the Council on Academic Accreditation in Audiology and Speech-Language Pathology (CAA) of the American Speech-Language-Hearing Association, 2200 Research Boulevard #310, Rockville, Maryland 20850, 800-498-2071 or 301-296-5700. Candidacy is a “pre-accreditation” status with the CAA, awarded to developing or emerging programs for a maximum period of five years.

Notice to Students RE: Professional Licensure and Certification

California State University programs for professions that require licensure or certification are intended to prepare the student for California licensure and certification requirements. Admission into programs for professions that require licensure and certification does not guarantee that students will obtain a license or certificate. Licensure and certification requirements are set by agencies that are not controlled by or affiliated with the California State University and licensure and certification requirements can change at any time.

The California State University has not determined whether its programs meet other states’ educational or professional requirements for licensure and certification. Students planning to pursue licensure or certification in other states are responsible for determining whether, if they complete a California State University program, they will meet their state’s requirements for licensure or certification. This disclosure is made pursuant to 34 CFR §668.43(a)(5)(v)(C).

Special Features

- Graduate students pursuing a degree in the Communication Sciences and Disorders Master of Science or Doctor of Audiology programs in the Department of Communication Sciences and Disorders participate in supervised clinical practica through the campus-based Maryjane Rees Language, Speech, and Hearing Center.
- Graduate practica in Communication Sciences and Disorders include three semesters of on-campus clinic followed by an internship in the public schools and an internship in local hospitals or other agencies.
- Upon completion of the Master’s degree, students will have acquired
a variety of supervised clinical experiences totaling a minimum of 388 clock hours.

- Graduate practica in the Au.D. Program include at least three semesters of on-campus clinic, a variety of internships in the Sacramento area, and a full-time externship in the final year of the program.

**Career Possibilities**

Please note that most of the career possibilities listed below require additional education beyond the baccalaureate degree.

Speech-Language Pathology Assistant (SLPA) · Speech-Language Pathologist in medical, school and private practice settings · Speech-Language Pathologist with Special Class Authorization to teach a classroom of communicatively disabled children · Audiologist · Employment requiring a background in human development, communication, health, and education · Fields of audiology, special education, counseling, rehabilitation, the health insurance industry, disability law, career advising, hospital administration, school administration and government health programs.

**Contact Information**

Robert Pieretti, Department Chair
David Gleason, Administrative Support Coordinator
Folsom Hall 2400
http://www.csus.edu/hhs/csad/

**Faculty**

CSAD 110. **Physics of Sound and Phonetics.** 4 Units
Prerequisite(s): CHDV 30, DEAF 51, PSYC 2, and STAT 1
Corequisite(s): CSAD 111
Term Typically Offered: Fall only

Physical production, acoustic characteristics of sounds of speech. International Phonetic Alphabet as applied to speech sounds; practice in phonetic transcription of dialects and deviant speech; applications in speech education, speech and hearing therapy. Introduction to physiological acoustics, psychoacoustics, and acoustic phonetics. Perception of speech including voice, resonance, individual speech segments; instrumentation for acoustic and perceptual analysis of speech.

CSAD 111. **Anatomy and Physiology of the Speech Mechanism.** 3 Units
Prerequisite(s): CHDV 30, DEAF 51, PSYC 2, and STAT 1
Corequisite(s): CSAD 110
Term Typically Offered: Fall only

Anatomical, physiological and neurological bases of speech. Covers development, normal structure and function. A general course in human anatomy is recommended as background.

CSAD 112. **Language Science and Development.** 3 Units
Prerequisite(s): CHDV 30, DEAF 51, PSYC 2, and STAT 1
Corequisite(s): CSAD 110 and CSAD 111
Term Typically Offered: Fall only

Overview and comparison of normal and abnormal child language development from infancy through upper elementary school. Establishes a framework for understanding language disorders including autism and pervasive developmental delay. Includes theories of language acquisition, basic principles of language sampling, systems of language, elements of grammar, and preparation for informal and standardized assessment of language disorders. Introduces students to the impact of variables such as attention deficit disorder, poverty, bilingualism on developing language skills.

CSAD 123. **Voice and Fluency.** 3 Units
Prerequisite(s): CSAD 125, CSAD 126, PSYC 2, STAT 1, CHDV 30, and DEAF 51.
Term Typically Offered: Fall, Spring


CSAD 125. **Developmental and Acquired Neurogenic Language Disorders Across the Lifespan.** 3 Units
Prerequisite(s): CSAD 112, CHDV 30, PSYC 2, STAT 1, and DEAF 51.
Term Typically Offered: Spring only

Language disorders and the dynamic, reciprocal relationships between the disability, the client, his/her family, and the environment. Developmental and acquired neurogenic language disorders from infancy through adulthood will be covered including neurophysiology and neuropathology.

CSAD 126. **Speech Sound Development and Disorders in Children: Aspects of Articulation and Phonology.** 3 Units
Prerequisite(s): CSAD 110, CHDV 30, PSYC 2, STAT 1, and DEAF 51.
Term Typically Offered: Spring only


CSAD 127. **Introduction to Medical Speech Pathology.** 3 Units
Prerequisite(s): CSAD 123, CSAD 125, CSAD 126, PSYC 2, STAT 1, CHDV 30, and DEAF 51.
Term Typically Offered: Fall, Spring

Current concepts regarding anatomy and physiology, etiology, assessment, and treatment of craniofacial disorders, laryngectomy, tracheostomy and dysphagia.

CSAD 130. **Introduction to Audiology.** 3 Units
Prerequisite(s): CHDV 30, DEAF 51, PSYC 2, STAT 1, CSAD 110 and CSAD 111.
Term Typically Offered: Spring only

Introduction to the field of audiology. Covers the principles of sound, the anatomy and physiology of the auditory system, audiometry, physiological measures of auditory function, disorders of the auditory system, sound and various assessment approaches.
CSAD 133. Introduction to Aural Rehabilitation. 3 Units
Prerequisite(s): CSAD 125, CSAD 126, CSAD 130, PSYC 2, STAT 1, CHDV 30, and DEAF 51.
Term Typically Offered: Fall, Spring

Principles of aural (re)habilitation across the lifespan. Topics include psychosocial aspects of hearing impairment, communication strategies, amplification, and intervention approaches for children and adults with hearing loss.

CSAD 140. SLPA Methods. 3 Units
Prerequisite(s): CSAD 145 and instructor permission.
Corequisite(s): CSAD 140L.
Term Typically Offered: Fall, Spring

Taken by students as one of their senior level courses when they wish to pursue a Speech-Language Pathology Assistant (SLPA) licensure. Graduate students who have not had a similar course and wish to obtain this licensure will also need to enroll prior to pursuing the licensure.

CSAD 140L. SLPA Practicum, Ethical and Legal Parameters. 3 Units
Prerequisite(s): CSAD 145 and instructor permission.
Corequisite(s): CSAD 140.
Term Typically Offered: Fall, Spring

Taken by students as one of their senior level courses when they wish to pursue a Speech-Language Pathology Assistant (SLPA) licensure. Graduate students who have not had a similar course and wish to obtain this licensure will also need to enroll prior to pursuing the licensure.

CSAD 142. Topics in Autism Spectrum Disorders. 2 Units
Prerequisite(s): CSAD 112, CSAD 125, PSYC 2, STAT 1, CHDV 30, and DEAF 51.
Term Typically Offered: Fall, Spring

Detailed look at characteristics of autism spectrum disorders (including Asperger’s Syndrome, PDD-NOS and Autism). Issues related to diagnosis/assessment, early intervention, school-based intervention, functional therapeutic techniques and theories, and current ‘hot topics’ in Autism (Theory of Mind, joint attention, biomedical issues, dietary restrictions, sensory regulation and intervention paradigms) will be a part of this course.

CSAD 143. Communication Disorders in Multicultural Populations. 3 Units
Prerequisite(s): CHDV 30, DEAF 51, PSYC 2, STAT 1, CSAD 110, CSAD 125, and CSAD 126.
Term Typically Offered: Fall, Spring

Identification, evaluation, and treatment of multicultural, multilingual clients with communication disorders. Discussion of normal second language acquisition, bilingual development, and cultural values related to effective service delivery for multicultural clients.

CSAD 145. Supervised Field Observations. 1 Unit
Prerequisite(s): CSAD 110, CSAD 111, CSAD 112, PSYC 2, STAT 1, CHDV 30, and DEAF 51.
Corequisite(s): CSAD 125, CSAD 126, and CSAD 130.
Term Typically Offered: Spring only

Directed observations of speech and hearing testing (screening and diagnostic); therapy and case staffing in schools, service clinics and hospitals.

Credit/No Credit

CSAD 146. Introduction to Clinical Issues and Methods. 3 Units
Prerequisite(s): CHDV 30, DEAF 51, PSYC 2, STAT 1, CSAD 110, CSAD 111, CSAD 112, CSAD 125, CSAD 126, CSAD 130, and CSAD 145. Minimum major GPA of 3.2 with no CSAD course below a grade of ‘C.’
Term Typically Offered: Fall, Spring

Work with graduate students and clients. Introduction to clinical procedures, ASHA Code of Ethics, legal issues, funding sources, supervision and scope of practice. Survey of professional settings for speech and language services, including multidisciplinary settings. Required for applicants of the CSAD Master’s program. Recommended for students who plan to apply to graduate programs at other universities. Optional for students who do not plan to attend graduate school.

Background check, immunizations, and HIPPA training required prior to enrollment (see Department webpage).

CSAD 147. Assessment Procedures. 3 Units
Prerequisite(s): CSAD 125, CSAD 126, CSAD 145, PSYC 2, STAT 1, CHDV 30, and DEAF 51.
Term Typically Offered: Fall, Spring

Current principles, methods and materials used by the speech-language pathologist to assess communication disorders are presented. Issues related to a model of assessment, informal and formal testing, dynamic assessment, interview techniques, administration, scoring and interpretation of test results, report writing and related issues will be discussed.

CSAD 148. Research in Speech-Language Pathology and Audiology. 3 Units
Prerequisite(s): CHDV 30, DEAF 51, PSYC 2, STAT 1, CSAD 110, CSAD 111, CSAD 112, CSAD 125, CSAD 126, CSAD 130, and CSAD 145.
Term Typically Offered: Fall, Spring

Survey of research strategies and methods in Speech-Language Pathology and Audiology. Statistical procedures and single-subject designs. Emphasis on interpreting research reports in the literature and on developing research projects. Writing research proposals and reports.

CSAD 149. Special Problems. 1 - 3 Units
Term Typically Offered: Fall, Spring

Individual projects or directed reading. Open only to students competent to carry on individual work.

Note: Departmental petition required.

Credit/No Credit

CSAD 217. AAC and Assistive Technologies. 2 Units
Term Typically Offered: Spring only

Biological, acoustic, psychological, development, linguistic, and cultural bases for motor speech disorders, focusing on augmentative and alternative communication an assistive technologies as well as their assessment and treatment techniques.

CSAD 218. Motor Speech Disorders. 3 Units
Prerequisite(s): Classified graduate status.
Term Typically Offered: Fall only

Background pertinent to understanding neurophysiology associated with congenital and acquired dysarthria and dyspraxia. Descriptions and classifications of disorders and their causes, methods of assessment and treatment.
CSAD 219. Counseling Techniques for Speech Pathologists and Audiologists. 3 Units
Term Typically Offered: Fall only

Development of strategies for counseling and interviewing clients with communication disorders and their families. Development of specific skills such as effective listening, dealing constructively with emotions, working with families, and leading support groups. Students will learn to deal effectively with the affective side of communication disorders to help clients benefit maximally from assessment and treatment.

CSAD 221. Neurogenic Language Disorders. 4 Units
Term Typically Offered: Spring only

In-depth study of language and cognitive disorders in adult, secondary to cerebrovascular accident, dementia, and/or traumatic brain injury. Assessment and intervention strategies are covered with particular emphasis on functional outcomes.

CSAD 222. Curriculum in Relation to Language -- Learning Disabilities in School-age Children. 3 Units
Prerequisite(s): Instructor permission.
Term Typically Offered: Spring only

Language acquisition as a continuum from oral language to reading and writing, the role of the speech-language specialist in working with reading disabilities; the interactions among speech-language intervention and curricula areas including mathematics, spelling, handwriting, social studies and language arts; and various service delivery models, including collaborative consultation and learning centers.

CSAD 223. Advanced Seminar in Child Language Disorders. 3 Units
Prerequisite(s): CSAD 125 or equivalent
Term Typically Offered: Fall only

In-depth study of childhood language disorders emphasizing the use of critical thinking to integrate evidence-based practice into discussion of current assessment and intervention practices for children with primary and secondary language impairment. Specific topics include language sampling, early intervention, connecting intervention with Common Core State Standards, and team-based service delivery. Populations addressed include bilingual learners, those with working memory deficits, and autism spectrum disorder. The impact of the digital era and screen exposure on children with language impairment is discussed.

CSAD 227. Dysphagia and the Medical Setting. 3 Units
Prerequisite(s): CSAD 218, CSAD 221, instructor permission.
Term Typically Offered: Fall, Spring

Swallowing problems from infancy through old age; growth patterns and failures in younger populations; feeding and swallowing problems related to normal aging processes and those associated with neurogenic disorders. Assessment and treatment. Includes theoretical and experiential components. Overview of the role of Speech-Language Pathologist in the hospital setting including learning how to read medical charts, basic insurance information, understanding other disciplines and how they affect the job and career of an SLP in the hospital, and medical terms/abbreviations.

CSAD 228A. Speech Sound Disorders: Concepts and Methods. 2 Units
Prerequisite(s): Admission to the graduate program. CSAD 125, CSAD 126, CSAD 143, CSAD 145, CSAD 146, CSAD 148.
Corequisite(s): CSAD 229A.
Term Typically Offered: Fall, Spring

Speech sound disorders for graduate students in speech-language pathology. Foundations of speech sound disorders, as well as techniques and materials for assessing and treating speech sound differences and disorders of varying etiologies and presentations. Weekly content will be integrated with practical experiences to promote learning.

CSAD 228B. Voice and Fluency: Concepts and Methods. 3 Units
Prerequisite(s): CSAD 123, CSAD 127, CSAD 228A, instructor permission.
Corequisite(s): CSAD 229B.
Term Typically Offered: Fall, Spring

Foundations of fluency, voice and resonance, as well as techniques and materials for assessing and treating speech disorders, emphasizing fluency and voice. Staffings and discussion of cases on the current caseload. Weekly content integrated with practical experiences to promote learning.

CSAD 228C. Methods: Speech Disorders III. 1 Unit
Prerequisite(s): CSAD 218, CSAD 228B; CSAD 221 may be concurrent; instructor permission.
Corequisite(s): CSAD 229C.
Term Typically Offered: Fall, Spring

Techniques and materials for assessing and treating clients with disordered speech secondary to developmental disabilities and syndromes, degenerative diseases or complex problems associated with English as a second language (ESL). Discussions of cases in the current caseload.

CSAD 229A. Practice: Speech Disorders I. 2 Units
Prerequisite(s): Instructor permission
Corequisite(s): CSAD 228A
Term Typically Offered: Fall, Spring

Supervised clinical practice emphasizing articulation and phonological disorders, and phonological difficulties associated with English as a second language (ESL). Clients may include both children and adults.

CSAD 229B. Practice: Speech Disorders II. 2 Units
Prerequisite(s): Instructor permission.
Corequisite(s): CSAD 228B.
Term Typically Offered: Fall, Spring

Supervised clinical practice emphasizing clients whose speech is disrupted by abnormal rhythm and rate (e.g. stuttering and cluttering) or abnormal vocal pitch, loudness, and/or quality.

CSAD 229C. Practice: Speech Disorders III. 2 Units
Prerequisite(s): Instructor permission
Corequisite(s): CSAD 228C
Term Typically Offered: Fall, Spring

Supervised clinical practice emphasizing children and adults whose speech is disrupted secondary to developmental disorders and syndromes, degenerative disorders or complex problems.
CSAD 241S. Practice: Hearing Screenings. 1 Unit
Prerequisite(s): CSAD 130
Term Typically Offered: Fall, Spring

Supervised clinical practice in the administration of hearing screening tests. The student must furnish his/her own transportation. Fifteen to twenty hours for one unit. Credit/No Credit

CSAD 242A. Methods: Language Disorders I & Professional Writing-Field of Speech-Language Pathology & Audiology. 2 Units
Prerequisite(s): Admission to Graduate Program
Corequisite(s): CSAD 243A
Term Typically Offered: Fall, Spring

Methods, materials and procedures in language disorders with emphasis on working with children and adults with peripheral hearing loss or central auditory processing disorders (CAPD). Includes staffing and discussion of cases in the current caseload. Focus on professional writing in the field of Speech-Language Pathology through the development of treatment plan proposals, critical responses, and clinical reports.

CSAD 242B. Methods: Language Disorders II. 1 Unit
Prerequisite(s): CSAD 223, CSAD 242A; instructor permission.
Corequisite(s): CSAD 243B.
Term Typically Offered: Fall, Spring

Techniques and materials for assessing and treating children with disordered language secondary to a myriad of contributing factors including delayed development, neurological problems and various genetic conditions. Discussion of cases in the current caseload.

CSAD 242C. Methods: Language Disorders III. 1 Unit
Prerequisite(s): CSAD 218, CSAD 242B; CSAD 221 may be taken concurrently; instructor permission.
Corequisite(s): CSAD 243C.
Term Typically Offered: Fall, Spring

Techniques and materials for assessing and treating speech and language disorders emphasizing disorders secondary to cerebral vascular accidents, traumatic brain injury, or other neurological disorders. Discussion of cases in the current caseload.

Note: May be repeated.

CSAD 243A. Practice: Language Disorders I. 2 Units
Prerequisite(s): Instructor permission
Corequisite(s): CSAD 242A
Term Typically Offered: Fall, Spring

Supervised clinical practice in language disorders emphasizing children and adults with peripheral hearing loss or central auditory processing disorders (CAPD).

CSAD 243B. Practice: Language Disorders II. 2 Units
Prerequisite(s): Instructor permission
Corequisite(s): CSAD 242B
Term Typically Offered: Fall, Spring

Supervised clinical practice with children demonstrating language disorders secondary to a myriad of contributing factors including delayed development, neurological problems, and various genetic conditions.

CSAD 243C. Practice: Language Disorders III. 2 Units
Prerequisite(s): CSAD 243B; instructor permission
Corequisite(s): CSAD 242C
Term Typically Offered: Fall, Spring

Supervised clinical practice emphasizing adult clients whose speech and language are disordered secondary to neurogenically related problems such as cerebrovascular accident, traumatic brain injury, or other neurological disorders.

CSAD 244. Methods: Speech -- Language Assessment. 1 Unit
Prerequisite(s): CSAD 147 or equivalent; CSAD 228B, CSAD 242B; instructor permission.
Corequisite(s): CSAD 245.
Term Typically Offered: Fall, Spring

Methods and materials for initial assessment in Speech-Language Pathology.

CSAD 245. Practice: Speech -- Language Assessment. 1 Unit
Prerequisite(s): Instructor permission
Corequisite(s): CSAD 244
Term Typically Offered: Fall, Spring

Supervised clinical practice in assessment with a variety of communication disorders in children and adults. Experience with interdisciplinary teams.

CSAD 250. Speech/Language Internships Seminar. 2 Units
Corequisite(s): CSAD 295I, or CSAD 295M, or CSAD 295P, or CSAD 295S.
Term Typically Offered: Fall, Spring

Assessment, scheduling and conducting language speech and hearing programs in schools. Related issues including scope of practice, managed care, interagency cooperation and transdisciplinary approaches.

CSAD 295I. Internship: Speech-Language and Hearing Services in Schools (SLHS). 4 Units
Prerequisite(s): All previous semester's clinical practica and coursework must be completed, achievement of a passing score on the CBEST.
Corequisite(s): CSAD 250. Graded: Credit/No Credit Units: 4
Term Typically Offered: Fall, Spring

Supervised clinical practice in the school setting. Students are expected to conform to the schedules of the placement(s) to which they are assigned. The student must furnish his/her own transportation. Credit/No Credit

CSAD 295M. Internship: Speech-Language Pathology in a Medical Setting. 4 Units
Prerequisite(s): All previous semester's clinical practica and coursework must be completed, achievement of a passing score on the CBEST.
Corequisite(s): CSAD 250. Graded: Credit/No Credit Units: 4
Term Typically Offered: Fall, Spring

Supervised clinical practice in a medical setting. Students are expected to conform to the schedules of the placement(s) to which they are assigned. The student must furnish his/her own transportation. Credit/No Credit
CSAD 295P. Internship: Speech-Language Pathology in Private Practice.  **4 Units**  
Prerequisite(s): CSAD 250. All previous semester’s clinical practica and coursework must be completed, achievement of a passing score on the CBEST. Graded: Credit/No Credit. Units: 4  
Term Typically Offered: Fall, Spring  
Supervised clinical practice in a private practice setting. Students are expected to conform to the schedules of the placement(s) to which they are assigned. The student must furnish his/her own transportation. Credit/No Credit  

CSAD 295S. Internship: Special Class Authorization Eligibility.  **4 Units**  
Prerequisite(s): CSAD 250. All previous semester’s clinical practica and coursework must be completed, achievement of a passing score on the CBEST. Graded: Credit/No Credit Units: 4  
Term Typically Offered: Fall, Spring  
Supervised clinical practice in a medical setting. Students are expected to conform to the schedules of the placement(s) to which they are assigned. The student must furnish his/her own transportation. Credit/No Credit  

CSAD 299. Special Problems.  **1 - 3 Units**  
Term Typically Offered: Fall, Spring  
Individual projects or directed reading. Open only to students who appear competent to carry on individual work. **Note:** Departmental petition required. Credit/No Credit  

CSAD 500C. Culminating Experience: Comprehensive Exam.  **2 Units**  
Prerequisite(s): Advanced to Candidacy. Graded: Credit/No Credit. Units: 2.0  
Term Typically Offered: Fall, Spring  
Written exam comprised of eight questions. Examinees are given one and a half hours to complete each question. Credit/No Credit  

CSAD 500P. Culminating Experience: Project.  **2 Units**  
Prerequisite(s): Advancement to Candidacy. Graded: Credit/No Credit. Units: 2.0 - 4.0  
Term Typically Offered: Fall, Spring  
Independent work conducted under the supervision of faculty members. A project is a significant undertaking appropriate to the professional fields of Speech-Language Pathology or Audiology. It must evidence originality, independent thinking, appropriate form and organization, and a rationale. It must be described and summarized in a written document that includes the project’s significance, objectives, methodology, and a conclusion or recommendation. Students must follow all department and university project guidelines. Credit/No Credit  

CSAD 500T. Culminating Experience: Thesis.  **2 Units**  
Prerequisite(s): Advanced to Candidacy. Graded: Credit/No Credit.  
Term Typically Offered: Fall, Spring  
Independent research study, conducted under the supervision of faculty members. Thesis must involve a research question or hypothesis, review of pertinent literature, collection and analysis of data. It is the student’s responsibility to locate and recruit subjects, to collect data, and to write the thesis. Students must follow all department and university thesis guidelines. Credit/No Credit  

CSAD 501. Audiology Doctoral Project I.  **1 Unit**  
Prerequisite(s): CSAD 510  
Term Typically Offered: Fall only  
Independent research conducted under the supervision of audiology faculty members. Must include research question, literature review, hypotheses, data collection, and analysis. Students are responsible for identifying and recruiting participants, collecting data, and developing a plan for analysis. Case studies and systematic reviews should follow program guidelines. Credit/No Credit  

CSAD 502. Audiology Doctoral Project II.  **1 Unit**  
Prerequisite(s): CSAD 501  
Term Typically Offered: Spring only  
Independent research conducted under the supervision of audiology faculty members. Must include research question, literature review, hypotheses, data collection, and analysis. Students are responsible for identifying and recruiting participants, collecting data, and developing a plan for analysis. Case studies and systematic reviews should follow program guidelines. Credit/No Credit  

CSAD 503. Audiology Doctoral Project III.  **1 Unit**  
Prerequisite(s): CSAD 502  
Term Typically Offered: Summer only  
Independent research conducted under the supervision of audiology faculty members. Must include research question, literature review, hypotheses, data collection, and analysis. Students are responsible for identifying and recruiting participants, collecting data, and developing a plan for analysis. Case studies and systematic reviews should follow program guidelines. Credit/No Credit  

CSAD 504. Audiology Doctoral Project IV.  **1 Unit**  
Prerequisite(s): CSAD 503  
Term Typically Offered: Fall only  
Independent research conducted under the supervision of audiology faculty members. Must include research question, literature review, hypotheses, data collection, and analysis. Students are responsible for identifying and recruiting participants, collecting data, and developing a plan for analysis. Case studies and systematic reviews should follow program guidelines. Credit/No Credit  

CSAD 505. Audiology Doctoral Project V.  **1 Unit**  
Prerequisite(s): CSAD 504  
Term Typically Offered: Spring only  
Dissemination, written and oral, of capstone research. Credit/No Credit  

CSAD 510. Audiology Progress Exam.  **1 Unit**  
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614, CSAD 620, CSAD 620C, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 630, CSAD 630C, CSAD 631, CSAD 632.  
Term Typically Offered: Summer only  
Formative written and practical exam based on coursework and clinical experiences from the first year of the Doctor of Audiology program. Credit/No Credit
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Term Typically Offered</th>
<th>Prerequisite(s)</th>
<th>Corequisite(s)</th>
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<tr>
<td>CSAD 520</td>
<td>Audiology Comprehensive Exam</td>
<td>1 Unit</td>
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<tr>
<td>CSAD 610</td>
<td>Introduction to Clinic</td>
<td>1 Unit</td>
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<td>Admission to Doctor of Audiology program; CSAD 610, CSAD 611, CSAD 612, CSAD 620, CSAD 620C.</td>
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<tr>
<td>CSAD 611</td>
<td>Anatomy and Physiology of the Auditory and Vestibular Systems.</td>
<td>3 Units</td>
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<td>Admission to doctorate program in audiology. Fall only</td>
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<td>CSAD 612</td>
<td>Acoustics and Psychoacoustics</td>
<td>3 Units</td>
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<td>Admission to Doctorate program in Audiology. Fall only</td>
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<td>CSAD 613</td>
<td>Instrumentation in Audiology</td>
<td>3 Units</td>
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<td>Admission to Doctorate program in Audiology. Fall only</td>
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<td>CSAD 614</td>
<td>Audiologic Evaluation</td>
<td>3 Units</td>
<td></td>
<td>Admission to Doctorate program in Audiology. Fall only</td>
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<td>CSAD 620</td>
<td>Clinical Methods: Communicating with Patients</td>
<td>1 Unit</td>
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<td>Admission to Doctor of Audiology program; CSAD 610.</td>
<td>CSAD 620C.</td>
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<td>CSAD 621</td>
<td>Research Methods in Audiology</td>
<td>3 Units</td>
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<td>Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614.</td>
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<tr>
<td>CSAD 622</td>
<td>Amplification I</td>
<td>3 Units</td>
<td></td>
<td>Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614.</td>
<td>CSAD 622L.</td>
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<tr>
<td>CSAD 622L</td>
<td>Amplification I Lab.</td>
<td>1 Unit</td>
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<td>Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614.</td>
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<tr>
<td>CSAD 623</td>
<td>Disorders of the Auditory System</td>
<td>3 Units</td>
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<td>Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614.</td>
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<tr>
<td>CSAD 624</td>
<td>Genetics for Audiology</td>
<td>1 Unit</td>
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<td>Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614.</td>
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Admission to Doctor of Audiology program; CSAD 610, CSAD 611, CSAD 612, CSAD 613, CSAD 614.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Prerequisite(s)</th>
<th>Corequisite(s)</th>
<th>Term Typically Offered</th>
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<tbody>
<tr>
<td>CSAD 630</td>
<td>Clinical Methods: Report writing</td>
<td>1</td>
<td>Admission to Doctor of Audiology program; CSAD 610, CSAD 620</td>
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<td>Summer only</td>
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<td></td>
<td></td>
<td></td>
<td>Principles of clinical report writing. Foundations of professional writing and</td>
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<td>recordkeeping for the diagnostic and rehabilitative processes. Writing</td>
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<td>CSAD 630C</td>
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<td>2</td>
<td>admission to Doctor of Audiology program; CSAD 610, CSAD 620</td>
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<td>Supervised clinical practice in audiology with an emphasis on refining clinical</td>
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<td>skills and working independently.</td>
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<td>CSAD 631</td>
<td>Amplification II</td>
<td>3</td>
<td>Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614,</td>
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<td>Summer only</td>
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<td>CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624</td>
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<td>Advance study of digital amplification systems, including hearing aids and</td>
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<td>assistive listening devices. Practical approaches to the fitting of devices are</td>
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<tr>
<td>CSAD 632</td>
<td>Pediatric and Educational Audiology</td>
<td>3</td>
<td>Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614,</td>
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<td>CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624</td>
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<td>Introduction to etiologies of childhood hearing impairment, including genetics,</td>
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<td>syndromic and non-syndromic causes of hearing loss, and risk factors. Objective</td>
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<td>and behavioral measures of assessing auditory function and hearing in newborns,</td>
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<td>CSAD 640</td>
<td>Clinical Methods: Current Topics in Audiology</td>
<td>1</td>
<td>Admission to Doctor of Audiology program; CSAD 610, CSAD 620</td>
<td>CSAD 640C</td>
<td>Fall only</td>
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<td>Review and discussion of current topics in audiology such as hidden hearing</td>
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<td>loss, cerumen management, tinnitus, speech perception in noise, central auditory</td>
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<td>processing, or technological advancements in amplification.</td>
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<td>CSAD 640C</td>
<td>Audiology Clinic IV</td>
<td>1</td>
<td>Admission to Doctor of Audiology program; CSAD 610, CSAD 620</td>
<td>CSAD 640C</td>
<td>Fall only</td>
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<td>Supervised clinical practice in audiology with an emphasis on developing clinical</td>
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<td>skills for audiologic evaluations, amplification, and aural rehabilitation.</td>
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<td>CSAD 641</td>
<td>Auditory Evoked Potentials</td>
<td>3</td>
<td>Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614,</td>
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<td>Fall only</td>
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<td>CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624</td>
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<td>Physiological measures for evaluating the integrity of the auditory system.</td>
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<td>CSAD 641L</td>
<td>Auditory Evoked Potentials Lab</td>
<td>1</td>
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<td>CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624</td>
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<td>Lab component includes administration and reporting of physiological</td>
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<td>assessments presented in CSAD 641: Auditory Evoked Potentials.</td>
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<tr>
<td>CSAD 642</td>
<td>Industrial Audiology and Hearing Conservation</td>
<td>3</td>
<td>Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614,</td>
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<td>Fall only</td>
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<td>CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624</td>
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<td>Study of the effects of noise on the auditory system and measurement of noise</td>
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<td>levels. Theories and resources for the implementation of hearing conservation</td>
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<td>programs for recreational/leisure noise exposure, industrial settings, and</td>
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<td>schools.</td>
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<td>CSAD 643</td>
<td>Tinnitus</td>
<td>3</td>
<td>Admission to Doctor of Audiology program; CSAD611, CSAD612, CSAD613, CSAD614, CSAD</td>
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<td>Fall only</td>
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<td>621, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624</td>
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<td>Psychological and physiological models of tinnitus and hyperacusis, diagnostic</td>
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<td>methods, and management.</td>
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<td>CSAD 650</td>
<td>Clinical Methods: Billing and Coding</td>
<td>1</td>
<td>Admission to Doctor of Audiology program; CSAD 610, CSAD 620</td>
<td>CSAD 650C</td>
<td>Spring only</td>
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<td>Overview of coding, billing, and reimbursement for audiology services and</td>
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<td>devices. Students will learn current federal regulations and laws that affect</td>
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<td>audiology practice.</td>
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<td>CSAD 650C</td>
<td>Audiology Clinic V</td>
<td>1</td>
<td>Admission to Doctor of Audiology program; CSAD 610, CSAD 620</td>
<td>CSAD 640</td>
<td>Spring only</td>
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<td>Supervised clinical practice in audiology with an emphasis on refining clinical</td>
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<td>skills and working independently.</td>
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<td>Credit/No Credit</td>
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</tbody>
</table>
CSAD 651. Objective Measures. 3 Units
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 631, CSAD 632, CSAD 641, CSAD 641L, CSAD 642, CSAD 643.
Term Typically Offered: Spring only
Fundamentals of otoacoustic emissions, and advanced study of immittance testing and the auditory brainstem response with some practical exercises.

CSAD 652. Pediatric Habilitation. 3 Units
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 631 CSAD 632, CSAD 641, CSAD 641L, CSAD 642, CSAD 643.
Term Typically Offered: Spring only
Early identification, assessment, and rehabilitation for infants and children with hearing loss. Focus on speech and language outcomes, communication strategies, technology, and counseling of families.

CSAD 653. Diagnosis and Management of Vestibular Disorders. 3 Units
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 631, CSAD 632, CSAD 641, CSAD 641L, CSAD 642, CSAD 643.
Term Typically Offered: Spring only
Anatomical and physiological bases of the vestibular system, including congenital, peripheral and central, and neurologic factors will also be introduced. Physiological measures of the vestibular system, clinical assessment, and management and rehabilitation.

CSAD 660. Clinical Methods: Legal and Ethical Issues. 1 Unit
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 610, CSAD 620, CSAD 630, CSAD 640, CSAD 650
Corequisite(s): CSAD 660C
Term Typically Offered: Summer only
Ethics for clinical practice and research and legal issues for audiologists. Focuses on local and national issues that influence service delivery.

CSAD 660C. Audiology Clinic VI. 2 Units
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 610, CSAD 620C, CSAD 630C, CSAD 640C, CSAD 650C.
Corequisite(s): CSAD 660
Term Typically Offered: Summer only
Supervised clinical practice in audiology with an emphasis on refining clinical skills and working independently. Credit/No Credit

CSAD 661. Aural Rehabilitation. 3 Units
Term Typically Offered: Summer only
Rehabilitative techniques and communication needs for adults and the aging population. Focus on minimizing communication difficulties and managing psychosocial aspects of hearing loss. Prerequisite: Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 631, CSAD 632, CSAD 641, CSAD 641L, CSAD 642, CSAD 643, CSAD 651, CSAD 652, CSAD 653.

CSAD 662. Implantable Devices and Technology. 2 Units
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 631, CSAD 632, CSAD 641, CSAD 641L, CSAD 642, CSAD 643, CSAD 651, CSAD 652, CSAD 653
Term Typically Offered: Summer only
Pre-operative assessment and post-operative management of cochlear implants and other implantable devices. Includes patient counseling for expectations, introduction to surgical procedures, mapping, use of assistive devices, and current developments in research.

CSAD 670. Clinical Methods: Professional Issues. 1 Unit
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 610, CSAD 620, CSAD 630, CSAD 640, CSAD 650, CSAD 660
Corequisite(s): CSAD 670C
Term Typically Offered: Fall only
Professional issues for audiologists. Topics covered include licensure, certification, and professional involvement at the local, state, and national levels.

CSAD 670C. Audiology Clinic VII. 2 Units
Prerequisite(s): Student must be admitted to Doctor of Audiology program; complete CSAD 610, CSAD 620C, CSAD 630C, CSAD 640C, CSAD 650C to enroll in this course.
Corequisite(s): CSAD 670
Term Typically Offered: Fall, Spring
Supervised clinical practice in audiology with an emphasis on refining clinical skills and working independently.

CSAD 671. Counseling in Audiology. 3 Units
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 631, CSAD 632, CSAD 641, CSAD 641L, CSAD 642, CSAD 643, CSAD 651, CSAD 652, CSAD 653, CSAD 661, CSAD 662.
Term Typically Offered: Fall only
Introduction to the principles and theories of counseling. Emphasis on communication skills and applied techniques. Considerations for assessing multicultural populations. Influences of cultural background on attitudes, beliefs, disabilities, utilization of health care services, and deafness.

CSAD 672. Central Auditory Processing Disorders. 3 Units
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 311, CSAD 312, CSAD 613, CSAD 614, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 331, CSAD S32, CSAD 641, CSAD 641L, CSAD 642, CSAD 643, CSAD 651, CSAD 652, CSAD 653, CSAD 661, CSAD 362.
Term Typically Offered: Fall only
Definition and role of audiologists in the assessment, diagnosis, and management of children, adults, and older adults with auditory processing disorder.
CSAD 673. Pharmacology and Ototoxicity. 1 Unit
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 631, CSAD 632, CSAD 641, CSAD 641L, CSAD 642, CSAD 643, CSAD 651, CSAD 652, CSAD 653, CSAD 661, CSAD 662.
Term Typically Offered: Fall only
Introduction to the basic concepts of pharmacology, including pharmacokinetics, polypharmacy, and ototoxicity (cochleotoxicity, vestibulotoxicity, and neurotoxicity), for audiologists. Overview of drug classifications, interactions, and regulations.

CSAD 680. Clinical Methods: Differential Diagnosis. 1 Unit
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 610, CSAD 620, CSAD 630, CSAD 640, CSAD 650, CSAD 660, CSAD 670
Corequisite(s): CSAD 680C
Term Typically Offered: Spring only
Discussion of clinical cases to encourage critical thinking and decision-making processes.

CSAD 680C. Audiology Clinic VIII. 2 Units
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 610, CSAD 620C, CSAD 630C, CSAD 640C, CSAD 650C, CSAD 660C, CSAD 670C.
Corequisite(s): CSAD 680
Term Typically Offered: Spring only
Supervised clinical practice in audiology with an emphasis on refining clinical skills and working independently. Credit/No Credit

CSAD 681. Practice Management. 2 Units
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 631, CSAD 632, CSAD 641, CSAD 641L, CSAD 642, CSAD 643, CSAD 651, CSAD 652, CSAD 653, CSAD 661, CSAD 662, CSAD 671, CSAD 672, CSAD 673
Term Typically Offered: Fall, Spring
Topics relating to business models, terminology, accounting, reimbursement, equipment needs, and office management. Focus on private practice and managed care.

CSAD 682. Aging and the Auditory System. 2 Units
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 614, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 631, CSAD 632, CSAD 641, CSAD 641L, CSAD 642, CSAD 643, CSAD 651, CSAD 652, CSAD 653, CSAD 661, CSAD 662, CSAD 671, CSAD 672, CSAD 673.
Term Typically Offered: Spring only
Overview of physical, psychological, social, and cognitive changes that are associated with normal aging. Prevalent disorders, diseases, and conditions in older adults will be discussed. Effects of aging on diagnostic tests and rehabilitation for older adults. Interdisciplinary in nature.

CSAD 683. Speech-Language Pathology for Audiologists. 1 Unit
Prerequisite(s): Admission to Doctor of Audiology program; CSAD 611, CSAD 612, CSAD 613, CSAD 314, CSAD 621, CSAD 622, CSAD 622L, CSAD 623, CSAD 624, CSAD 331, CSAD 332, CSAD 641, CSAD 641L, CSAD 642, CSAD 643, CSAD 651, CSAD 652, CSAD 653, CSAD 661, CSAD 662, CSAD 671, CSAD 672, CSAD 673
Term Typically Offered: Spring only
Overview of speech and language development, including screening for speech and language disorders and risk factors for speech and language delay, from the perspective of audiology. Principles of auditory-verbal therapy.

CSAD 710. Clinical Methods: Externship I. 2 Units
Prerequisite(s): CSAD 520
Corequisite(s): CSAD 710E
Term Typically Offered: Summer only
Seminar and discussion of cases from externship placements.

CSAD 710E. Audiology Externship 1. 7 Units
Prerequisite(s): CSAD 520
Corequisite(s): CSAD 710
Term Typically Offered: Summer only
Full-time externship in audiology. Credit/No Credit

CSAD 720. Clinical Methods: Externship II. 2 Units
Prerequisite(s): CSAD 710.
Corequisite(s): CSAD 720E.
Term Typically Offered: Fall only
Seminar and discussion of cases from externship placements.

CSAD 720E. Audiology Externship 2. 7 Units
Prerequisite(s): CSAD 710E.
Corequisite(s): CSAD 720.
Term Typically Offered: Fall only
Full-time externship in audiology. Credit/No Credit

CSAD 730. Clinical Methods: Externship III. 2 Units
Prerequisite(s): CSAD 720.
Corequisite(s): CSAD 730E.
Term Typically Offered: Spring only
Seminar and discussion of cases from externship placements.

CSAD 730E. Audiology Externship 3. 7 Units
Prerequisite(s): CSAD 720E.
Corequisite(s): CSAD 730.
Term Typically Offered: Spring only
Full-time externship in audiology. Credit/No Credit