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.

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, an extension of the Speech-Language Pathology Services Credential, required to teach a classroom for children with language disorders. Employment as an Audiologist requires a clinical doctorate of Audiology (AuD) 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
In addition to California State University, Sacramento’s full accreditation by the Western Association of Schools and Colleges, the Master of Science in Communication Sciences and Disorders is also accredited by American Speech-Language-Hearing Association.

Licensure and Credentialing Disclosure
Admission into programs leading to licensure and credentialing does not guarantee that students will obtain a license or credential. Licensure and credentialing requirements are set by agencies that are not controlled by or affiliated with the CSU and requirements can change at any time. For example, licensure or credentialing requirements can include evidence of the right to work in the United States (e.g., social security number or tax payer identification number) or successfully passing a criminal background check. Students are responsible for determining whether they can meet licensure or credentialing requirements. The CSU will not refund tuition, fees, or any associated costs, to students who determine subsequent to admission that they cannot meet licensure or credentialing requirements. Information concerning licensure and credentialing requirements are available from the Dean of Undergraduate Studies, Sacramento Hall 234, (916) 278-5344.

Special Features
- The Bachelor’s degree program in Communication Sciences and Disorders is accredited by the Western Association of Schools and Colleges (WASC).
- Graduate students pursuing a degree in Communication Sciences and Disorders in the Department of Speech-Language Pathology and Audiology 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.
- The Master’s degree program in Communication Sciences and Disorders is accredited by the Council on Academic Accreditation (CAA) of the American Speech-Language-Hearing Association (ASHA).
- The Speech-Language Pathology Services Credential with or without Special Class Authorization is approved by the California Commission on Teacher Credentialing (CCTC).

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
D'ANGELO, LISA
DAVIS, Tonia
GAETA, LAURA
HAGGE, DARLA
PATTERSON, AISHAH
PIERETTI, ROBERT
ROSEBERRY-MCKIBBIN, CELESTE
THOMPSON, ROBERT

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 120. Introduction to Language, Speech and Hearing Problems. 3 Units
Term Typically Offered: Fall, Spring
Review of normal speech and language development. Overview of language, speech, and hearing development and disorders including multicultural issues. Introduction to professional issues and ethics.

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. Audiology and Hearing Testing. 3 Units
Prerequisite(s): CHDV 30, DEAF 51, PSYC 2, STAT 1, CSAD 110 and CSAD 111
Term Typically Offered: Spring only
Introduction to audiology; anatomy and physiology of the hearing mechanism; pathologies of the ear; basic acoustics of sound and its relation to hearing and speech; school hearing screening; hearing conversation; audiometric interpretation and its relationship to speech language and learning disorders.

CSAD 133. 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
According to Tye-Murray, aural rehabilitation is “intervention aimed at minimizing and alleviating the communication difficulties associated with hearing loss.” This course examines communication assessment and remediation approaches for children and adults with both peripheral and central auditory problems.
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 111, CSAD 112, 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.
Term Typically Offered: Fall, Spring
Methods and materials used in clinical procedures are introduced. Work with graduate students and clients provides introduction to actual procedures and ethical practices. Introduction to ASHA Code of Ethics and legal issues in professional practice including federal and state laws and regulations, funding sources and scope of practice, survey of professional settings for speech and hearing services, including multidisciplinary settings. Prior to enrolling in CSAD 146, students must fulfill the catalogue requirements listed in the catalogue section "Undergraduate Clinical Assistantship.

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 199. 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.

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. Methods: Speech Disorders I. 2 Units
Prerequisite(s): CSAD 125, CSAD 126, CSAD 143, CSAD 145, CSAD 146, CSAD 148 or equivalents; instructor permission.
Corequisite(s): CSAD 229A.
Term Typically Offered: Fall, Spring
Diagnosis and treatment as applied to the current caseload, including articulation and phonological disorders and characteristics associated with English as a second language (ESL) populations. Methods for both children and adults. Staffings, case studies and presentations, demonstrations and class discussions.

CSAD 228B. Methods: Speech Disorders II. 1 Unit
Prerequisite(s): CSAD 123, CSAD 127 or equivalents; CSAD 228A, instructor permission.
Corequisite(s): CSAD 229B.
Term Typically Offered: Fall, Spring
Techniques and materials for assessing and treating speech disorders emphasizing fluency and voice. Staffings and discussion of cases in the current caseload.
Note: May be repeated.

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.
Note: May be repeated.

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.
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.

**CSAD 241S. Practice: Hearing Screenings.**
1 Unit
Prerequisite(s): CSAD 130
Term Typically Offered: Fall, Spring

Supervised clinical practice emphasizing disorders secondary to cerebral vascular accidents, traumatic brain injury, or other neurological disorders.

**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 clinic reports.

**CSAD 242B. Methods: Language Disorders II.**
1 Unit
Prerequisite(s): CSAD 218, CSAD 242B; CSAD 221 may be taken concurrently; 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. Note: May be repeated.

**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 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.

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.

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.