

# SPEECH, LANGUAGE AND HEARING SCIENCES

## Graduate College of Education

Dean: Dr. Cynthia Grutzik

## Department of Speech, Language and Hearing Sciences

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Chair: Dr. Laura Epstein

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The Department of Speech, Language and Hearing Sciences offers a Bachelor of Science (BS) and a Master of Science (MS) in Communicative Disorders.

The Bachelor of Science (BS) is designed to provide undergraduate students with a clinical science foundation that is rigorous and appropriate preparation for a wide range of clinical, educational, and related fields such as nursing, kinesiology, physical therapy, dietetics, orientation & mobility, counseling, and teaching in primary, secondary, and special education. The SLHS undergraduate degree also prepares students to acquire the prerequisites necessary to apply for graduate study in speech-language pathology and audiology. Program courses constitute the specific requirements for a science major in SLHS leading to the baccalaureate degree at this University. The undergraduate sequence or a program equivalence is a prerequisite to the Master of Science in Communicative Disorders.

A master's degree in the area of speech-language pathology (SLP) is required for the professional license to practice in the field. A doctoral degree in Audiology (AUD) is required for professional licensing in audiology. All undergraduates, regardless of their intention to become an audiologist or speech-language pathologist, or another career, take the same coursework. Thirteen core courses are required for the major. The B.S. degree is not a terminal degree. While the B.S. degree does not qualify the student to practice speech-language pathology or audiology, there are related fields open to the B.S. graduate that include employment as teacher's assistant, classroom aide, child development worker, and speech-language pathology assistant with additional intern experience beyond the undergraduate degree. In addition, the B.S. degree is strong preparation for a number of graduate programs in special education, education, rehabilitation counseling, and related fields.

The Master's level curriculum of the Department of Speech, Language and Hearing Sciences includes all academic and clinical experiences necessary for American Speech and Hearing Association (ASHA) certification in speech-language pathology, State of California Speech-Language Pathology Services Credential, and the State of California license to practice speech-language pathology. Students are required to complete all academic and clinical courses. The practice of speech-language pathology in the state of California requires a license issued by the Speech-Language Pathology and Audiology Examining Committee Medical Board of California. Exempted settings are public schools and federal facilities. The academic and clinical requirements for the state

license are similar to those of ASHA requirements in speech-language pathology.

## Professor

MARCIA RAGGIO (1997), *Professor of Speech, Language and Hearing Sciences*; B.A. (1978), M.S. (1980), San Francisco State University; Ph.D. (1992), University of California, San Francisco.

NANCY B. ROBINSON (2002), *Professor of Speech, Language and Hearing Sciences*; B.S. (1971), University of California, Santa Barbara; M.S. (1975), Portland State University; Ph.D. (1987), University of Washington, Seattle.

GLORIA SOTO (1996), *Professor of Special Education*; B.S. (1988), Universidad Pontificia, Spain; M.S. (1991), Ph.D. (1994), Purdue University.

## Associate Professor

LAURA EPSTEIN (2006), *Associate Professor of Speech, Language and Hearing Sciences*; B.A. (1982), University of California at Berkeley; M.S. (1983), University of London, Institute of Archaeology; M.A. (1990), Ph.D. (1994) University of California at Santa Barbara.

BETTY YU (2009), *Associate Professor of Speech, Language and Hearing Sciences*; B.A. (1996), University of California at Berkeley; M.A. (1999), New York University; Ph.D. (2009), San Francisco State University with University of California at Berkeley.

## Assistant Professor

TERESA GRAY (2015), *Assistant Professor of Speech, Language and Hearing Sciences*; B.A. (2000), University of California Santa Cruz; M.A. (2008), San Jose State University; Ph.D. (2015), Boston University.

PATTI SOLOMON-RICE (2011), *Assistant Professor of Speech, Language and Hearing Sciences*; B.S. (1977), University of Wisconsin, Madison; M.A. (1980), University of Montana, Missoula; Ph.D. (2010), San Francisco State University with University of California, Berkeley.

## Major

- Bachelor of Science in Communicative Disorders ([bulletin.sfsu.edu/colleges/education/speech-language-hearing-sciences/ba-communicative-disorders](http://bulletin.sfsu.edu/colleges/education/speech-language-hearing-sciences/ba-communicative-disorders))

## Masters

- Master of Science in Communicative Disorders ([bulletin.sfsu.edu/colleges/education/speech-language-hearing-sciences/ms-communicative-disorders](http://bulletin.sfsu.edu/colleges/education/speech-language-hearing-sciences/ms-communicative-disorders))

## Certificate

- Certificate in Augmentative and Alternative Communication ([bulletin.sfsu.edu/colleges/education/speech-language-hearing-sciences/certificate-augmentative-alternative-communication](http://bulletin.sfsu.edu/colleges/education/speech-language-hearing-sciences/certificate-augmentative-alternative-communication))

## SLHS 150 Difference and Disability (Units: 3)

Prerequisite: GE Area A2.

Have you ever wondered if stuttering was nothing more than a different way of talking; if autism was just a different way of seeing the world; or if there were many different kinds of intelligence? Explore and analyze what it means to have a disability, reframe disabilities as differences, and find out about university and community resources that support students with and without disabilities. (Plus-minus letter grade)

**SLHS 300 Human Communicative Disorders (Units: 3)**

Prerequisite: Successful completion of GE Areas A1, A2, A3, and B4 or consent of the instructor.

Communicative development and disorders; processes and models; language universals; basis of language; speech, language, and hearing impairments; family and cultural influences; bilingualism and dialectal variations; evaluation of communicative effectiveness. Communicative Disorders majors must earn a C- or better to advance in the major.

[Formerly C D 300]

**Course Attributes:**

- UD-D: Social Sciences
- Social Justice

**SLHS 651 Anatomy and Physiology of the Speech Mechanism (Units: 3)**

Prerequisites: Restricted to upper division Communicative Disorders major; a course in area B1: Physical Science (Physics or Chemistry is strongly recommended), a course in Statistics (including MATH 124 or PSY 171 or ISED 160), a course in biological science in one of the following areas: human or animal biology, human anatomy and physiology, neuroanatomy and neurophysiology, human genetics, or veterinary science, and a course in social/behavioral sciences in one of the following areas: psychology, sociology, anthropology, or public health. Concurrent enrollment in SLHS 652 and SLHS 655.

Normal structures and functioning of respiration, phonation, resonance, and articulation. Communicative Disorders majors must earn a C- or better in this course to advance in the major. (Plus-minus letter grade only) [Formerly C D 651]

**SLHS 652 Audiology (Units: 3)**

Prerequisites: Restricted to Communicative Disorders major; a course in area B1: Physical Science (Physics or Chemistry is strongly recommended), a course in Statistics (at SF State, courses include MATH 124 or PSY 171 or ISED 160), a course in biological science in one of the following areas: human or animal biology, human anatomy and physiology, neuroanatomy and neurophysiology, human genetics, or veterinary science, a course in social/behavioral sciences in one of the following areas: psychology, sociology, anthropology, or public health. Concurrent enrollment in SLHS 651 and SLHS 655.

Structure and function of the ear; sound related to the hearing mechanism; causes, implications, and techniques of determination of hearing impairment. Communicative Disorders majors must earn a C- or better in this course to advance in the major. (Plus-minus letter grade only) [Formerly C D 652]

**SLHS 654 Audiometry (Units: 3)**

Prerequisites: Restricted to Communicative Disorders majors; SLHS 300, SLHS 651, SLHS 652, SLHS 655, with grades of C- or better, or by advisement; concurrent enrollment in SLHS 658, SLHS 661, SLHS 680.

Pure tone and bone conduction hearing testing. Masking, immittance testing, electrophysiological testing, pediatric audiology, speech audiometry and public school hearing/conversation programs. (Plus-minus letter grade only) [Formerly C D 654]

**SLHS 655 Dynamics of Communication Development (Units: 3)**

Prerequisite: Successful completion of GE Areas A1, A2, A3, and B4 or consent of the instructor.

Exploration of the acquisition patterns of normal speech, language, and pragmatic behaviors. Theories of language development, phonology, morphology, syntax, and semantics. Language analysis with typically developing children. (ABC/NC grading only) [Formerly C D 655]

**Course Attributes:**

- UD-D: Social Sciences

**SLHS 656GW Diagnosis of Communicative Disorders - GVAR (Units: 3)**

Prerequisites: Restricted to upper-division Communicative Disorders majors; GE Area A2, SLHS 654, SLHS 658, SLHS 661, SLHS 680, or by advisement; concurrent enrollment in SLHS 657, SLHS 664.

Diagnosis of communicative disorders. Observation, language sample analysis, and distinctive feature analysis. (ABC/NC grading only) [Formerly C D 656GW]

**Course Attributes:**

- Graduation Writing Assessment

**SLHS 657 Aural Rehabilitation (Units: 3)**

Prerequisites: Restricted to upper division Communicative Disorders majors; SLHS 654, SLHS 658, SLHS 661, SLHS 680, with grades of C- or better; or by advisement; concurrent enrollment in SLHS 656GW, SLHS 664.

Psychological, educational, and sociological implications of hearing loss. Aural rehabilitation: speech reading, auditory training, amplification, and speech conservation and/or improvement. (Plus-minus letter grade only) [Formerly C D 657 and C D 705]

**SLHS 658 Communication Development and Disorders (Units: 3)**

Prerequisites: Restricted to upper division Communicative Disorders majors; SLHS 300, SLHS 651, SLHS 652, SLHS 655; concurrent enrollment in SLHS 654, SLHS 661, SLHS 680.

Language acquisition, disorders and their causes in school-age children. Application of diagnostic and intervention techniques. (Plus-minus letter grade only) [Formerly C D 658]

**SLHS 659 Articulatory and Phonological Disorders (Units: 3)**

Prerequisites: Restricted to upper division Communicative Disorders majors; SLHS 656GW, SLHS 657, SLHS 664, with grades of C- or higher; or by advisement; concurrent enrollment in SLHS 663, SLHS 668.

Disordered articulation; accent/dialectal differences; normal phonological processes; phonological disorders and distinctive features. Practicum for diagnosis and therapy for articulation, phonological, and accent problems. (Plus-minus letter grade only) [Formerly C D 659]

**SLHS 661 Neurolinguistics (Units: 3)**

Prerequisites: Restricted to upper division Communicative Disorders majors; SLHS 300, SLHS 651, SLHS 652, SLHS 655, with grades of C- or better; concurrent enrollment in SLHS 652, SLHS 658, SLHS 680.

Cortical and subcortical components of language processing; current research on the central nervous system and its application to speech, language, and hearing. (Plus-minus letter grade only) [Formerly C D 661]

**SLHS 662 Aural Rehabilitation and Audiometry (Units: 3)**

Prerequisite: Restricted to upper-division Communicative Disorders majors; SLHS 656GW.

A seminar on the psychological, educational, and sociological implications of hearing loss with a focus on the basic principles of audiometry including pure tone air and bone conduction testing. Additional topics include speech audiometry, masking, pediatric evaluations, immittance audiometry, and neurophysiological measures of hearing. Aural Rehabilitation, including speech reading, auditory training, amplification, and speech conservation and/or improvement will be discussed for both adults and children. (Plus-minus letter grade only) [Formerly C D 662]

**SLHS 663 Introduction to Augmentative and Alternative Communication (Units: 3)**

Prerequisites: Restricted to upper-division Communicative Disorders majors; SLHS 656GW, SLHS 657, and SLHS 664; or by advisement; concurrent enrollment in SLHS 659 and SLHS 668.

Introduction and applied experiences with augmentative and alternative communication including low- and hi-tech systems. Assessment, team collaboration, funding, and use of AAC such as designing systems that meet functional communication needs. (Plus-minus letter grade only) [CSL may be available] [Formerly C D 663]

**SLHS 664 Clinical Phonetics (Units: 3)**

Prerequisites: Restricted to upper division Communicative Disorders majors; SLHS 654, SLHS 658, SLHS 661, SLHS 680; concurrent enrollment in SLHS 657, SLHS 656GW.

Speech sounds of American English and the development of phonology. IPA transcription experience applied with regard to human diversity. Not open to students who have taken COMM 410. (Plus-minus letter grade only) [Formerly C D 664]

**SLHS 668 Typical and Atypical Social Communication Development (Units: 3)**

Prerequisites: Restricted to upper division Communicative Disorders major; completion of SLHS 656GW and SLHS 664, SLHS 753; or by advisement; concurrent enrollment in SLHS 659 and SLHS 663 required.

Exploration of the typical and atypical development of language use in social contexts, including expressing communicative intent, engaging in conversation and extended discourse, and cultural participation. Pragmatic and discourse analysis of talk in everyday interactions involving children. Diagnostic and intervention strategies. (Plus-minus letter grade only) [Formerly C D 668]

**SLHS 680 Practicum in Communication Therapy (Unit: 1)**

Prerequisites: Restricted to Communicative Disorders majors; concurrent enrollment in SLHS 654 for undergraduate students.

Supervised clinical experiences in communication rehabilitation for communicative disorders. May be repeated for a total of 10 units. Type of experience and number of units determined by advisement. (Plus-minus letter grade, RP) [Formerly C D 680]

**SLHS 699 Independent Study in CD (Units: 1-3)**

Prerequisite: Upper-division standing or consent of the instructor.

Study of a particular problem under the direction of a member of the department. Enrollment by petition approved by the instructor, adviser, and department chair. Open to regularly enrolled students only. [Formerly C D 699]

**SLHS 701 Culturally and Linguistically Responsive Practices in Speech, Language, and Hearing Sciences (Units: 3)**

Prerequisite: Restricted to graduate Communicative Disorders students or consent of the instructor.

Engage in a critical exploration of issues related to speech, language, and communication services for children from diverse backgrounds. Understand the equity issues impacting the referral, identification, and educational placement of children from minority communities. Develop knowledge and skills for the provision of effective, evidence-based, and culturally and linguistically responsive assessment and intervention services. (Plus-minus letter grade only) [CSL may be available] [Formerly C D 701]

**SLHS 706 Counseling in Communicative Disorders (Units: 3)**

Prerequisites: SLHS 701, SLHS 708, SLHS 709, SLHS 768.

Counseling of communicatively disordered individuals and their families. Theories and methods as they apply to the unique disorder. Experimental opportunities for analyzing individual counseling processes. (Plus-minus letter grade only) [Formerly C D 706]

**SLHS 707 Advanced Seminar in Language Disorders in Children (Units: 3)**

Prerequisites: Admission to Communicative Disorders program; SLHS 701 or consent of instructor.

Assessment, intervention, and organizational procedures for use with classes that include children of various ages with language disorders. (Plus-minus letter grade only) [Formerly C D 707]

**SLHS 708 Neurogenic Disorders of Language (Units: 3)**

Prerequisite: Restricted to Communicative Disorders graduate students or consent of instructor.

Theories and methods of assessment and rehabilitation of adults with aphasia; focus on the nature, diagnosis, and treatment of aphasia, bilingual aphasia, and primary progressive aphasia. (Plus-minus letter grade only) [Formerly C D 708]

**SLHS 709 Seminar in Motor Speech Disorder (Units: 3)**

Prerequisites: Admission to Communicative Disorders program; SLHS 651, SLHS 661, SLHS 753.

Differential diagnosis and management of motor speech disorders in children and adults, including the dysarthrias and apraxia of speech. (Plus-minus letter grade only) [Formerly C D 709]

**SLHS 710 Seminar in Dysphagia (Units: 3)**

Prerequisites: Admission to Communicative Disorders graduate program; SLHS 651, SLHS 661.

Nature, etiology, and physiology of normal and abnormal patterns of swallowing across the lifespan, with emphasis on the adult population. Clinical swallowing assessment, modified barium swallow study and therapeutic intervention for dysphagia. Treatment and clinical decision-making emphasized. (Plus-minus letter grade only) [Formerly C D 710]

**SLHS 711 Seminar in Therapy for Functional Communicative Disorders (Unit: 1)**

Prerequisites: Restricted to Communicative Disorders graduate students; concurrent enrollment in SLHS 880.

Communication therapy, functional speech and language disorders: articulation, delayed speech, and stuttering. Repeated with variable clinic experiences. Units co-vary with the frequency of client-staff conference and time delivering more complex therapeutic treatment. May be repeated for a total of 4 units. (Plus-minus letter grade only) [Formerly C D 711]

**SLHS 712 Medical Internship Seminar: Communicative Disabilities (Unit: 1)**

Prerequisites: Admission to Communicative Disorders program; concurrent enrollment in SLHS 882, SLHS 884.

Seminar and peer discussion during hospital or medical intern placement. Review of clinical practices related to speech-language pathology in the evaluation, intervention, and interaction and personal qualities in the treatment of clients/patients. (Plus-minus letter grade only) [Formerly C D 712]

**SLHS 713 Seminar in Therapy for Organic Communicative Disorders (Unit: 1)**

Prerequisites: Restricted to Communicative Disorders graduate students; SLHS 663 or equivalent; concurrent enrollment in SLHS 880.

Communication therapy with speech and language disorders resulting from central nervous system or organic dysfunction. Repeated with variable clinic experiences. Units co-vary with the frequency of client-staff conferencing and more complex therapeutic treatment. May be repeated for up to 9 units. (Plus-minus letter grade only.) [Formerly C D 713]

**SLHS 715 Advanced School Internship (Units: 6)**

Prerequisites: Restricted to graduate Communicative Disorders students; concurrent enrollment in SLHS 725.

Participate in all professional roles of a speech-language pathologist in community and school settings. Open only to graduate students in Communicative Disorders who have completed all prerequisite coursework, determined by advisor. (CR/NC grading only) [Formerly C D 715]

**SLHS 725 School Internship Seminar: Communication Disabilities (Unit: 1)**

Prerequisite: Restricted to Communicative Disorders graduate students; student intern application approved by the adviser and on file at least one semester prior to student internship placement.

Seminar and discussion coinciding with student intern school placement. Approaches to evaluation, therapy and guidance for language and speech disabled children in public schools. Practical problems encountered in the clinical/rehabilitative experience. (Plus-minus letter grade only) [Formerly C D 725]

**SLHS 753 Fluency and Voice Disorders (Units: 3)**

Prerequisites: Restricted to graduate standing in Communicative Disorders; SLHS 768.

Causes of stuttering, current theories and therapies relative to stuttering in children and adults. Habilitation and rehabilitation of children and adults with organic and non-organic voice disorders. (Plus-minus letter grade only) [Formerly C D 753 and C D 653]

**SLHS 756 Right Hemisphere Syndrome, TBI, Dementia in Communicative Disabilities (Units: 3)**

Prerequisite: Restricted to Communicative Disorders graduate students; SLHS 708; or consent of an adviser.

Discussion of the right hemisphere, brain dysfunction, acquired and traumatic brain injuries and dementia; an understanding of assessment tools, interpretation of results, report writing and treatment; and different service models. (Plus-minus letter grade only) [Formerly C D 756]

**SLHS 768 Advanced Clinical Skills (Units: 3)**

Prerequisites: Restricted to Communicative Disorders graduate students; SLHS 668; or consent of the instructor.

Analysis of fundamental, transitional and complex skills that have been shown to positively affect treatment outcomes in the practice of speech-language therapy. (Plus-minus letter grade only) [Formerly C D 768]

**SLHS 880 Advanced Communication Therapy (Units: 2)**

Prerequisite: SLHS 668 or equivalent.

Supervised clinical methods and practice in communication rehabilitation. May be repeated for a total of 10 units. (Plus-minus letter grade only) [Formerly C D 880]

**SLHS 881 Internship in Communicative Disorders I (Units: 1-3)**

Prerequisite: Consent of major adviser.

Pre-internship in practicum settings: hospitals, private and public service agencies providing audiology and speech pathology therapies. (Plus-minus letter grade only) [Formerly C D 881]

**SLHS 882 Advanced Medical Internship (Units: 6)**

Prerequisite: Restricted to graduate standing in Communicative Disorders; concurrent enrollment in SLHS 712.

Participate in all professional roles of a speech-language pathologist in community and medical settings. Open only to graduate students who have completed all prerequisite coursework, determined by advisor. (Plus-minus letter grade only) [Formerly C D 882]

**SLHS 884 Advanced Diagnosis in Communicative Disorders (Units: 3)**

Prerequisites: 4 units of SLHS 880, SLHS 756, and consent of clinic supervisor.

Supervised clinical diagnosis of communicative disorders. (Plus-minus letter grade only) [Formerly C D 884]

**SLHS 896EXM Culminating Experience Examination (Units: 0-3)**

Prerequisites: Consent of instructor, committee chair, and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies. ATC and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration.

Enrollment in 896EXAM required for students whose culminating experience consists of an examination only. Not for students enrolled in a culminating experience course numbered SLHS 898. (CR/NC, RP) [Formerly C D 896EXM]

**SLHS 898 Master's Thesis in Communicative Disorders (Units: 3)**

Prerequisites: Consent of instructor and graduate major adviser; approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies. ATC and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration. (CR/NC grading only) [Formerly C D 898]

**SLHS 899 Independent Study (Units: 1-3)**

Prerequisite: Graduate standing or consent of instructor.

An intensive study of a particular problem in communicative disorders under the direction of a member of the department. Enrollment by petition. Open to regularly enrolled students only. (Plus-minus letter grade only) [Formerly C D 899]