

# Speech, Language, and Hearing Sciences

In the College of Health and Human Services

**OFFICE: Speech, Language, and Hearing 221**  
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**<http://slhs.sdsu.edu>**

Accredited in speech-language pathology and audiology by the Council on Academic Accreditation in Audiology and Speech-Language Pathology.

## Faculty

Emeritus: Allen, Cheng, Christensen, Davies, Gutierrez-Clellen, Newhoff,

Nichols, Riedman, Seitz, Shapiro, Thal, Thile, Williams, Wulfeck

Director: Love-Geffen (Interim)

Professors: Barlow, Emmorey, Kramer, Love-Geffen, Mackersie, Torre, III

Associate Professors: Blumenfeld, Dreisbach Hawe, Nip, Pruitt-Lord

Assistant Professors: Mills, Pham, Ries-Cornou

Lecturers: Branch, Kirsch, Lopes, Schmitz, Turner

## Offered by the School

Doctor of Philosophy degree in language and communicative disorders.

Doctor of Audiology.

Master of Arts degree in speech, language, and hearing sciences.

Major in speech, language, and hearing sciences with the B.A. degree in liberal arts and sciences.

Certificate in bilingual speech-language pathology (refer to the *Graduate Bulletin*).

Speech language pathology credential.

## The Major

The School of Speech, Language, and Hearing Sciences is committed to preparing speech-language-hearing professionals to meet the challenges of a racially, ethnically, and linguistically diverse society. There are limited employment opportunities for holders of the bachelor's degree; the bachelor's degree in speech, language, and hearing sciences serves as the basis for further graduate and professional study. A master's or professional doctoral degree, national certification and/or state licensure or school credential are needed for professional practice in areas such as speech-language pathology and audiology. A research doctorate (Ph.D.) is required for individuals pursuing a research and teaching career at the university level.

Speech-language pathology and audiology are professions that identify, help, and study persons with communicative disorders. Those entering these professions should possess a strong motivation to help individuals with communication problems. Preparation involves acquiring the knowledge and skills necessary to assume responsibility for assessment, education, and rehabilitation of persons with speech, language, and hearing disorders.

The master's degree is an advanced degree for those wanting to work professionally as a speech-language pathologist. A professional doctorate is required for those wanting to work professionally as an audiologist. Positions in speech, language, and hearing sciences are available in many public and private settings working with persons with speech, language, and hearing impairments, and the cognitive disorders underlying these impairments. Graduates with certification or licensure work in rehabilitation centers, schools, hospitals, private agencies, private practice, industry, research, and university teaching and research centers. Career opportunities are particularly good for minority, bilingual or bicultural persons.

The undergraduate curriculum is broad, involving coursework on normal and disordered speech, language, and hearing, as well as clinical procedures. Students interested in the speech, language, and hearing sciences program are advised to take college level courses in anatomy, biology, psychology, English, physiology, linguistics, physics, and mathematics. Studies leading to private practice, hospital work,

industrial work, work in school settings, or preparation for graduate work are similar in many ways; it is the area of specialization that serves to differentiate courses of study.

## Retention Policy

The College of Health and Human Services expects that all speech, language, and hearing sciences majors will make reasonable academic progress towards the degree. Speech, language, and hearing sciences premajors who have completed major preparatory courses, earned 60 units, but have less than a 2.75 GPA may be removed from the premajor and placed in undeclared.

## Impacted Program

The speech, language, and hearing sciences major is an impacted program. To be admitted to the speech, language, and hearing sciences major, students must meet the following criteria:

- Complete preparation for the major;
- Complete a minimum of 60 transferable semester units;
- Have a minimum cumulative GPA of 2.75.

To complete the major, students must fulfill the degree requirements for the major described in the catalog in effect at the time they are accepted into the premajor at SDSU (assuming continuous enrollment).

## Major Academic Plans (MAPs)

Visit <http://www.sdsu.edu/mymap> for the recommended courses needed to fulfill your major requirements. The MAPs website was created to help students navigate the course requirements for their majors and to identify which General Education course will also fulfill a major preparation course requirement.

## Speech, Language, and Hearing Sciences Major

**With the B.A. Degree in Liberal Arts and Sciences**

**(Major Code: 12203) (SIMS Code: 550107)**

All candidates for a degree in liberal arts and sciences must complete the graduation requirements listed in the section of this catalog on "Graduation Requirements." No more than 48 units in speech, language, and hearing sciences courses can apply to the degree.

A minor is not required with the major.

**Preparation for the Major.** Speech, Language, and Hearing Sciences 101 [or Dual Language and English Learner Education 101], 106, 150; Biology 100; Psychology 101 and 260; Psychology 280 (Sociology 201, Statistics 119 or 250 can be substituted for Psychology 280). (23 units)

**Language Requirement.** Competency (successfully completing the third college semester or fifth college quarter) is required in one foreign language to fulfill the graduation requirement. Refer to the section of this catalog on "Graduation Requirements."

**Graduation Writing Assessment Requirement.** Passing the Writing Placement Assessment with a score of 10 or completing one of the approved upper division writing courses (W) with a grade of C (2.0) or better. See "Graduation Requirements" section for a complete listing of requirements.

**International Experience.** All speech, language, and hearing sciences majors are required to participate in an international experience to increase awareness of cross-cultural issues, global health, economic, political, cultural, social services, and health challenges experienced by local populations in international environments. Students participate in residence for two or more weeks (exemption from the study abroad portion of the requirement must be approved by the dean of the college based on serious and compelling life events or physical limitations; a relevant course and community service activity in the U.S. will be substituted). Specific details can be found on the college website at <http://www.chhs.sdsu.edu/international>.

To meet the international experience requirement, majors must complete one of the following:

1. A CSU Study Abroad Program;
2. An SDSU Exchange Program;
3. An SDSU Study Abroad Program;
4. An SDSU Study Travel Program;

**OR**

5. One course selected from:
  - Health and Human Services 290 or 350;
  - Asian Studies 490;
  - Education 450;
  - General Studies 450;
  - International Security and Conflict Resolution 450;
  - Latin American Studies 450;
  - Political Science 450;
  - Science 350.

**Major.** Speech, Language, and Hearing Sciences 300, 305, 320, 321, 340, 340L, 512, 513, 514, 539, and 580. (33 units)

Students pursuing a graduate degree should consult the *Graduate Bulletin* for required undergraduate preparation.

**Time Limitation.** All courses for the major must be completed within seven years for the granting of the undergraduate degree. Any course completed more than seven years prior to the date on which all requirements for the degree are completed cannot be used to satisfy unit requirements for the degree. Exceptions for individual courses must be approved by the department and filed with the Office of Advising and Evaluations.

### Credential

The School of Speech, Language, and Hearing Sciences offers academic and practica coursework applicable to the Speech Language Pathology (SLP) Credential (**Credential Code: 00900**), required for working in California public schools.

Applicants to a credential program are required to submit scores from the California Basic Education Skills Test (CBEST) as part of the application for admission to a credential program. Note that the CBEST is given only three or four times each year.

Credential candidates are required to have the Certificate of Clearance (finger printing) prior to beginning the school experience. Candidates should apply for the Certificate of Clearance several months prior to submitting an application to the school for public school practicum placement in order for the certificate to be processed in time for the placement.

#### Speech Language Pathology (SLP) Credential in Language, Speech, and Hearing (Credential Code: 00900)

Students desiring to work with pupils with speech-language and hearing impairments on an itinerant or pull-out basis must complete the Speech Language Pathology (SLP) Credential in Language, Speech, and Hearing (LSH). A master's degree in speech, language, and hearing sciences is required of all candidates graduating with a SLP credential. Candidates for SLP credential in Language, Speech, and Hearing (LSH) must complete the requirements for the Certificate of Clinical Competence (CCC) from the American Speech-Language Hearing Association and the requirements of California licensure in Language and Speech. See sections on Certificates and Licensure.

#### Admission Requirements:

1. Formal application to San Diego State University and to the School of Speech, Language, and Hearing Sciences. All applicants for the credential must satisfy the admission requirements of the university and of the school for classified graduate standing and be recommended by the school for admission to the credential program.
2. California Basic Education Skills Test (CBEST) results.
3. Interview with the coordinator of the Language, Speech and Hearing credential.

#### Program Requirements:

1. The credential program requires a master's degree in Speech-Language Pathology.

2. The following courses are also required: Speech, Language, and Hearing Sciences 525, 546 (or transcript credit in an equivalent course), 618A and/or 619, 618B, 626A, 626B, 626C, 627, 629, 630, 933.
3. The program of professional preparation for the SLP Credential in Language, Speech, and Hearing requires a minimum of 75 semester credit hours, including a minimum of 27 semester credit hours in basic sciences and a minimum of 36 semester credit hours in professional coursework. At least 30 of the 36 semester credit hours must be in courses for which graduate credit is received, and at least 21 of the 30 graduate semester credit hours must be in the professional area for which the credential is sought. The candidate must complete a minimum of 25 supervised observation hours and 350 clinical contact hours including 50 clock hours in each of three types of clinical setting. This credential also requires that a minimum of 100 clock hours be completed in the school setting. See the section on Certificates and the Credential Coordinator for additional information.

### Certificates and Licensure

#### Preparation Leading to the Certificate of Clinical Competence in Speech-Language Pathology and Audiology by the Council on Academic Accreditation in Audiology and Speech-Language Pathology

Students may complete the academic and clinical practice requirements leading to the Certificate of Clinical Competence in Speech-Language Pathology (CCC-Sp) or to the Certificate of Clinical Competence in Audiology (CCC-A) given by the Council on Academic Accreditation in Audiology and Speech-Language Pathology. The certificate requires a professional doctorate in audiology (refer to *Graduate Bulletin*), a master's degree in speech-language pathology, and specialized clinical experiences. The applicant must pass a national examination in the area for which the certificate is sought and complete a Clinical Fellowship (following approval of academic coursework and clinical practica). Consult an adviser in the area in which certificate is desired.

#### Preparation Leading to State Licensure in Speech Pathology or Audiology

Students may complete the academic and clinical practicum requirements leading to California State Licensure in Speech Pathology or in Audiology, a legal requirement for all individuals professionally employed in non-public school settings and some public school settings. The Speech Pathology and Audiology Examining Committee which operates within the California State Board of Medical Quality Assurance requires a master's degree or equivalent in speech, language, and hearing sciences in the area (Speech Pathology or Audiology) in which the license is to be granted, 300 clock hours of supervised clinical experience, a national examination, and nine months of full-time supervised work experience (Required Professional Experience). For audiology, the fourth year externship satisfies the Required Professional Experience. Most Licensure and ASHA Certification requirements may be fulfilled concurrently. Consult an adviser in the area in which licensure is desired for specific information.

### High School Equivalents

High school American sign language courses may be used for purposes of placement in college courses and may be counted toward meeting the language requirement in various majors. These high school courses will not count as college credit toward graduation.

*Secondary school language courses can be used as follows:*

1. The first **two years** of high school level language count as the equivalent of the first semester of a college level course.
2. The first **three years** of high school level language count as the equivalent of the first two college semesters.
3. **Four years** of high school level language count as the equivalent of three college semesters or five college quarters, thus fulfilling the language requirement.

## COURSES (SLHS)

Refer to Courses and Curricula and University Policies sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.

### LOWER DIVISION COURSES

#### SLHS 101. American Sign Language I (4) [GE] (Same course as Dual Language and English Learner Education 101)

American Sign Language structure, use, literature, and deaf culture. Introductory level communication competence in ASL. Not open to students with credit in Dual Language and English Learner Education 102 or 201.

#### SLHS 106. Introduction to Speech, Language, and Hearing Sciences (3)

Orientation to field of speech-language pathology and audiology, to include scope of practice, professional issues, and research in speech, language, and hearing sciences.

#### SLHS 150. Sign Languages and Deaf Culture (3) [GE]

Introduction to sign languages, deafness and deaf culture. General issues of human language, language learning, and minority societies.

#### SLHS 296. Experimental Topics (1-4)

Selected topics. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree.

### UPPER DIVISION COURSES (Intended for Undergraduates)

#### SLHS 300. Introduction to Language Science (3)

Structure, acquisition, processing, and neurological organization of language in typical and disordered communication.

#### SLHS 305. Hearing Science (3)

Prerequisite: Credit or concurrent registration in Speech, Language, and Hearing Sciences 106.

Concepts of hearing science. Hearing science components to include physical acoustics, anatomy and physiology of auditory system, and psychoacoustics.

#### SLHS 320. Phonetics (3)

Two lectures and three hours of laboratory. Principles of speech production and practical skills in discriminating and transcribing sounds of various dialects in English and other languages, as well as clinical populations. Competency in IPA broad and narrow transcription, classification of speech sounds, and patterns of speech.

#### SLHS 321. Anatomy and Physiology of Speech (4)

Three lectures and three hours of laboratory. Prerequisite: Credit or concurrent registration in Speech, Language, and Hearing Sciences 106. Recommended: Psychology 260. Anatomy and physiology of respiratory, phonatory, and articulatory systems related to speech.

#### SLHS 340. Principles of Audiology (3)

Prerequisites: Speech, Language, and Hearing Sciences 305 with a grade of C (2.0) or better and concurrent registration in Speech, Language, and Hearing Sciences 340L. **Proof of completion of prerequisites required:** Copy of transcript. Diagnostic audiology procedures: Pure-tone testing, masking, speech recognition testing and immittance. Integration and interpretation of results from the basic audiological test battery.

#### SLHS 340L. Techniques of Audiometry (1)

Three hours of laboratory. Prerequisite: Credit or concurrent registration in Speech, Language, and Hearing Sciences 340. Laboratory experience with pure-tone, speech, and immittance audiometric tests.

#### SLHS 496. Topics in Speech, Language, and Hearing Sciences (1-4)

Study of some problem in speech, language, and hearing sciences. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Maximum credit six units.

#### SLHS 499. Special Study (1-3)

Prerequisite: Consent of instructor. Individual study. Maximum credit six units.

### UPPER DIVISION COURSES (Also Acceptable for Advanced Degrees)

#### SLHS 503. Advanced Speech Physiology (3)

Prerequisites: Speech, Language, and Hearing Sciences 320 and 321.

Methodology used to evaluate speech physiology in normal and disordered populations. Discussion of characteristics and etiologies of various speech disorders.

#### SLHS 511. Aural Rehabilitation (3)

Prerequisites: Speech, Language, and Hearing Sciences 320, 340. Recommended: Speech, Language, and Hearing Sciences 300, 513.

Theoretical, methodological, and technical issues related to facilitating receptive and expressive communication in individuals who are deaf or hard-of-hearing. Emphasizes multidisciplinary case management of children.

#### SLHS 512. Phonological Acquisition and Disorders (3)

Prerequisite: Speech, Language, and Hearing Sciences 320 with a grade of C (2.0) or better. **Proof of completion of prerequisite required:** Copy of transcript.

Phonology, phonological development, and phonological disorders as they relate to basic linguistic theory. Concepts considered through critical thinking and problem-solving.

#### SLHS 513. Foundations of Speech-Language: Development (4)

Prerequisites: Speech, Language, and Hearing Sciences 320, 321, and credit or concurrent registration in Speech, Language, and Hearing Sciences 300.

Speech-language development as related to theories of language acquisition, development, and clinical practice in children from birth to school-age.

#### SLHS 514. Foundations of Speech-Language: Differences and Disorders in Children (3)

Prerequisite: Speech, Language, and Hearing Sciences 513. Speech and language disorders and issues related to assessment of and intervention with children from culturally and linguistically diverse populations.

#### SLHS 521. Speech-Language Screening of Children (1) Cr/NC

Three hours of laboratory. Prerequisite: Clinic clearance. Screening speech and language of children in various community facilities and settings.

#### SLHS 525. Clinical Processes (1-2) Cr/NC

Prerequisite: Consent of instructor. Clinical issues, policies, and methods in speech-language pathology. Experience in writing lesson plans and clinical reports. Clinical observation to partially fulfill requirements for certification. Maximum credit five units.

#### SLHS 539. Neuroanatomy and Disorders of Speech and Language (3)

Three hours of laboratory screening per week. Prerequisites: Speech, Language, and Hearing Sciences 150, 300, 305, and 321. Structural and functional neuroanatomy and disorders of speech and language resulting from pathology of the nervous system.

#### SLHS 546. Clinical Issues in Aural Rehabilitation (2)

Prerequisite: Consent of instructor. Theoretical, methodological, and technical issues related to the speech-language pathologist's role in facilitating communication in individuals who are deaf or hard-of-hearing.

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### **SLHS 570. Dysphagia (4)**

Prerequisite: Consent of instructor.

Measurement techniques and research in dysphagia. Assessment and treatment of dysphagia and swallowing problems in children and adults.

### **SLHS 580. Communication Processes and Aging (3)**

Prerequisite: Twelve upper division units in an appropriate major. Normal and disordered communication processes in the aging.

### **SLHS 590. Seminar in Research Foundations of Speech, Language, and Hearing Sciences (3)**

Prerequisites: Consent of instructor and a grade of B+ (3.3) or better in Speech, Language, and Hearing Sciences 305, 320, 513. Open only to senior speech, language, and hearing sciences majors. Graduate students may not use this course toward program of study.

Specialized study of selected topics in speech, language, and hearing sciences.

### **SLHS 595. Research Practicum (1-3)**

Prerequisites: Consent of instructor and approval of school chair.

Participation in a specific research activity under faculty supervision. Maximum combined credit of six units of Speech, Language, and Hearing Sciences 595 and 795.

### **SLHS 596. Selected Topics in Speech, Language, and Hearing Sciences (1-4)**

Prerequisites: Twelve units in speech, language, and hearing sciences courses.

Specialized study of selected topics from the area of speech-language pathology, audiology, education of the hearing impaired, and speech and hearing science. May be repeated with new content. See *Class Schedule* for specific content. Limit of nine units of any combination of 296, 496, 596 courses applicable to a bachelor's degree. Credit for 596 and 696 applicable to a master's degree with approval of the graduate adviser.

**GRADUATE COURSES**  
Refer to the *Graduate Bulletin*.

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