

SPEECH AND HEARING SCIENCE

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<http://shs.illinois.edu>

The undergraduate curriculum in Speech and Hearing Science provides a broad background in the biological, behavioral, linguistic, and social foundations of human communication and communication disorders. The major prepares students to pursue a career or graduate education in many fields related to human communication and healthy communication practices. The degree requires at least 128 hours. The program has four concentrations: Audiology, Speech-Language Pathology, Neuroscience of Communication, and Cultural-Linguistic Diversity. Each of the four concentrations can be combined with pre-certification requirements from the American Speech-Language-Hearing Association for undergraduates wanting to pursue a career as either a speech-language pathologist or audiologist. The American Sign Language sequence of courses is available to students across all four concentrations.

A concentration must be declared prior to the senior year. Academic advising is required in the College of Applied Health Sciences and students are advised to consult Undergraduate Advising (<http://shs.illinois.edu/undergrad-advising>) on a regular basis to ensure they are meeting all requirements.

For an overview of the program and career opportunities, see this site (<http://labs.shs.illinois.edu/Undergraduates/Careers.aspx>). For further information, contact the Department of Speech and Hearing Science (<http://www.shs.uiuc.edu>), 220 Speech and Hearing Building, 901 S. Sixth Street, Champaign, IL 61820, (217) 333-2230.

For the Degree of Bachelor of Science in Speech and Hearing Science

General Education

Students are advised to select their General Education course requirements from the University's approved list of courses (www.courses.illinois.edu/cis/) and to work in close consultation with their academic advisor to ensure graduation requirements are addressed.

Communication Skills

Composition I
RHET 105 Writing and Research 4-6
or CMN 111 Oral & Written Comm I
& CMN 112 and Oral & Written Comm II

Advanced Composition 3
One course in Advanced Writing/Composition II from approved list ¹

Quantitative Reasoning I 3
One course from the approved Gen. Ed. list ²

Quantitative Reasoning II 3
One course from the approved list required.

Humanities and the Arts 6
Minimum of two courses from approved list required

Social and Behavioral Sciences	6
Minimum of two courses from approved list required	
Natural Sciences and Technology	6
Two classes or six hours from the university approved Gen. Ed. list required. ³	
Cultural Studies	6
One course from Western cultures approved campus list	
One course from U.S. Minority Cultures or Non-Western Cultures approved campus list	
Foreign Language	0-12
May be satisfied if had three years of one non-English language in high school or completed the equivalent of three semesters of college level foreign language (through the intermediate level).	
Total Hours	37-51

¹ must be taken at U of I

² A course in general statistics will address the BS degree requirement; however, those planning to pursue a graduate degree in communication science and disorders are advised to consider taking additional math (calculus may be required by some programs).

³ While not specifically required for the BS degree, students planning to pursue the Speech-Language Pathology or Audiology concentrations and eventual graduate studies in these areas, are advised to take one course in Life Science (a biological science is suggested) and one course in Physical Science (a course in Physics or Chemistry is recommended) to satisfy eventual ASHA certification requirements.

Speech and Hearing Science Professional Core Requirements

All students must complete a series of SHS core classes regardless of their area of concentration. Students are advised to work with the undergraduate academic advisor to ensure courses are taken in proper sequential order. One area of concentration (Speech-Language Pathology, Audiology, Neuroscience of Communication, or Cultural-Linguistic Diversity) must be declared prior to the senior year.

SHS 170	Intro Hum Comm Sys & Disorders	3
SHS 191	Freshmen Seminar	1
SHS 200	General Phonetics	3
SHS 240	Intro Sound & Hearing Science	3
SHS 300	Anat & Physiol Spch Mechanism ¹	4
SHS 301	General Speech Science ²	4
SHS 320	Development of Spoken Language	3
SHS 450	Intro Audiol & Hear Disorders	4
Total Hours		25

¹ Same as LING 300.

³ Same as LING 303. Should be taken after SHS 300.

Areas of Concentration (24-30 Hours)

- Audiology (<http://catalog.illinois.edu/undergraduate/ahs/departments/speech-hearing-science/audiology-concentration>)
- Cultural-Linguistic Diversity (<http://catalog.illinois.edu/undergraduate/ahs/departments/speech-hearing-science/cultural-linguistic-diversity-concentration>)

- Neuroscience of Communication (<http://catalog.illinois.edu/undergraduate/ahs/departments/speech-hearing-science/neuroscience-communication-concentration>)
- Speech-Language Pathology (<http://catalog.illinois.edu/undergraduate/ahs/departments/speech-hearing-science/audiology-concentration>)

Electives

All students are encouraged to take electives in and outside the department that will count towards the 128 required hours for graduation (the total number of electives students may take may vary with each individual). Students are encouraged to select electives that will complement their areas of interest and future goals. Areas listed below are only a sampling of possibilities; they are not to be considered as requirements and students are not limited to these choices. All students are responsible for addressing course pre-requisites and course availability may vary.

Anthropology (ANTH), Communications (CMN), Kinesiology and Community Health (KIN, CHLH), Educational Organization and Leadership (EOL), Curriculum & Instruction (CI), Educational Policy Studies (EPS), Educational Psychology (EPSY), English (ENGL), English as a Second Language (ESL), Gender and Women's Studies (GWS), Human Development and Family Studies (HDFS), Library and Information Science (LIS), Linguistics (LING), Psychology (PSYC), Recreation, Sport, & Tourism (RST), Rehabilitation Counseling (REHB), Special Education (SPED), Sociology (SOC), Social Work (SOCW). Additional areas to explore may include: courses in a foreign language beyond the completion of the University's requirement, as well as additional courses in science, such as Biology (IB, MCB), Physics (PHYS), microcomputer applications (e.g. ACE), and courses in cultural studies.

Summary of Degree Requirements

General Education	37-51
Speech and Hearing Science Core	25
Area of Concentration (and Correlate, if required by concentration)	24-30
Electives	22-42
Total Hours	128

Speech and Hearing Science Minor

The undergraduate Speech and Hearing Science Minor is designed for students who seek a basic familiarity with the physical, behavioral, biological, and social aspects of human communication. The minor is tailored to each student's individual needs, thus accommodating students from different disciplines across the campus. There are no prerequisites for this minor. For more information contact Kathi Ritten, Academic Advisor, at ritten@illinois.edu.

SHS 170	Intro Hum Comm Sys & Disorders	3
Select two of the following:		6-7
SHS 222	Language & Culture of Deaf Communities	
SHS 240	Intro Sound & Hearing Science	
SHS 300	Anat & Physiol Spch Mechanism	
SHS 320	Development of Spoken Language	
SHS 352	Hearing Health and Society	
Eight to Nine additional hours of speech and hearing science courses chosen from the following list:		8-9

SHS 120	Child, Comm, & Lang Ability
SHS 171	
SHS 200	General Phonetics
SHS 270	Comm Disability in the Media
SHS 271	Communication and Aging
SHS 301	General Speech Science
SHS 375	Comm Partners & Health
SHS 410	Stuttering: Theory & Practice
SHS 411	Normal and Disordered Voice
SHS 427	Language and the Brain
SHS 450	Intro Audiol & Hear Disorders
SHS 451	Aural Rehab Children to Adults
SHS 470	Neural Bases Spch Lang
SHS 473	Augmentative & Alt Comm
Total Hours	17-19

Note: Students must take at least six credits hours of speech and hearing science courses at the 300 or 400 levels from this approved list.

SHS Class Schedule (<https://courses.illinois.edu/schedule/DEFAULT/DEFAULT/SHS>)

Courses

SHS 111 Living-Learning ASL Part 1 credit: 2 Hours.

An introductory course in American Sign Language (ASL); no previous knowledge or skills are needed. It is offered through the Living in Residence Program at Allen Hall. The focus is on the acquisition of beginning-level vocabulary items and grammar of ASL. ASL is a non-Indo-European language that uses the visual/manual rather than spoken/auditory modality. Students develop a core vocabulary and basic grammar to enable you to communicate using ASL. The Deaf Community, like other cultural groups, defines a population that shares both a language and pattern of transmission of beliefs and values. The course provides an introduction to the culture, traditions, and values of the Deaf Community.

SHS 112 Living-Learning ASL Part 2 credit: 2 Hours.

The second part of an introductory course in American Sign Language (ASL); some knowledge of and skills in ASL are required. It is offered through the Living in Residence Program at Allen Hall. The focus is on the continued acquisition of beginning-level vocabulary items and grammar of ASL. ASL is a non-Indo-European languages that uses the visual/manual rather than spoken/auditory modality. Students develop core vocabulary and grammar to enable you to communicate using ASL. The Deaf Community, like other cultural groups, defines a population that shares both a language and pattern of transmission of beliefs and values. The course provides further information of the culture, traditions, and values of the Deaf Community.

SHS 120 Child, Comm, & Lang Ability credit: 3 Hours.

Provides an introduction to the study of the human communication and language capacity and includes an overview of three areas of inquiry: language science, language development in children, and language disability in children.

This course satisfies the General Education Criteria for: Social Beh Sci - Beh Sci

SHS 121 American Sign Language I credit: 4 Hours.

This is an introductory course in American Sign Language (ASL). No prior experience with the language is necessary. Students will learn vocabulary, elementary-level grammatical structures, and elements of U.S. Deaf Culture in order to engage in entry-level conversations in ASL. Basic social and communication skills associated with the use of ASL will be emphasized. This course is part of a sequence of courses that will fulfill the foreign language requirement for UIUC undergraduate students. Approved for Letter and S/U grading.

SHS 150 Hearing Processes & Disorders credit: 3 Hours.

An introduction to basic and clinical aspects of audition and their relevance to communication processes and communication disabilities from biological, humanistic, and technological perspectives. Communication processes and development are explored within historical, behavioral, and scientific frameworks. Hearing disabilities are described according to prevention etiology, manifestation, evaluation and treatment. The effects of disability on individuals and families across the lifespan are also addressed.

SHS 170 Intro Hum Comm Sys & Disorders credit: 3 Hours.

Examines broad perspectives of theories and information regarding normal and abnormal communication: how speech and language develop, how people hear, how they produce speech and what can go wrong; addresses the impact of speech and hearing science on society, culture, and modern technologies.

This course satisfies the General Education Criteria for:
Social Beh Sci - Beh Sci

SHS 191 Freshmen Seminar credit: 0 to 9 Hours.

Special experimental seminar or independent study course intended to cover topics not treated by regular course offerings; open to undergraduates at any level. Requests for activation of this course may be made by students or by faculty and should be directed to the head of the academic department concerned. Although credit toward graduation is normally granted, credit toward satisfying specific college or departmental requirements is contingent upon approval by the appropriate college or departmental committee. Approved for S/U grading only.

SHS 199 Undergraduate Open Seminar credit: 1 to 5 Hours.

Approved for letter and S/U grading. May be repeated, if topics vary.

SHS 200 General Phonetics credit: 3 Hours.

Basic principles of phonetic study; includes observation and representation of pronunciation, ear training, and practice in transcription.

SHS 221 American Sign Language II credit: 4 Hours.

This intermediate course in American Sign Language (ASL) is part of a sequence to fulfill the foreign language requirement. Students must have successfully completed SHS 121 or should be able to demonstrate advanced beginner ASL skills. Students will continue to learn vocabulary items and intermediate-level grammatical structures in order to improve conversation skills. As compared to SHS 121, a greater focus is placed on ASL constructions involving the complex use of space (e.g., verb inflections, so-called "classifiers", and constructed action). Same as LING 221. Approved for letter and S/U grading. Prerequisite: SHS 121 or equivalent language skills.

SHS 222 Language & Culture of Deaf Communities credit: 3 Hours.

Students will learn about culture and how it is manifested in various subgroups of society with a particular focus on the culture and language of Deaf people in the United States. Themes include: the linguistics of American Sign Language, aspects of social unity for Deaf people, common experiences of Deaf individuals, the educational system and Deaf students, and current issues that affect the Deaf community. For those students requiring 4 semesters of language other than English credit (LAS or BUS), SHS 222 can be used as the fourth course in the American Sign Language sequence that includes SHS 121, 221, and 321 to fulfill that requirement but cannot also then be used for Gen Ed requirements. Same as EPSY 222.

This course satisfies the General Education Criteria for:
Social Beh Sci - Soc Sci
Cultural Studies - US Minority

SHS 231 Lang Diff Dis: American Persp credit: 3 Hours.

Same as AFRO 231. See AFRO 231.

This course satisfies the General Education Criteria for:
Cultural Studies - US Minority

SHS 240 Intro Sound & Hearing Science credit: 3 Hours.

Acoustics, anatomy, and physiology of the auditory system; psychophysical methods; and a consideration of auditory theories and mechanics.

SHS 270 Comm Disability in the Media credit: 4 Hours.

Introduction to the study of human communication disability across the lifespan as depicted in the media and includes an overview of three areas of inquiry: behavioral/psychosocial impact of communication disability, ethical decisions in rehabilitation interventions, and disability rights.

This course satisfies the General Education Criteria for:
Advanced Composition
Social Beh Sci - Soc Sci

SHS 271 Communication and Aging credit: 3 Hours.

Course introduces social and physical issues of communication and aging, with particular emphasis on intergenerational interactions and on the physical disabilities of aging (e.g., hearing loss, Parkinson's disease, strokes, dementia). Discourse analysis techniques are used to integrate the social and physical aspects of aging and communication that are discussed in class.

This course satisfies the General Education Criteria for:
Social Beh Sci - Soc Sci

SHS 280 Communication Neuroscience credit: 3 Hours.

This course provides an overview of neuroscience with emphasis on human communication, moving from general concepts in neuroanatomy and neurophysiology to the specifics of the neuroscience of hearing, speech and language.

SHS 291 Research Lab Experience in SHS credit: 1 to 3 Hours.

Supervised participation in research laboratory and scholarly activities, usually as an assistant to an investigator. Approved for S/U grading only. May be repeated in the same or separate terms to a maximum of 6 hours.

SHS 300 Anat & Physiol Spch Mechanism credit: 4 Hours.

Introduction to the anatomic and physiologic characteristics of the normal speech mechanism. Same as LING 300.

SHS 301 General Speech Science credit: 4 Hours.

Consideration of the physiology of the speaking act, and the acoustical and perceptual aspects of speech. Same as LING 303.

SHS 320 Development of Spoken Language credit: 3 Hours.

Study of the correlates of language development from the prelinguistic period to adulthood.

SHS 321 American Sign Language III credit: 4 Hours.

This advanced-intermediate course in American Sign Language (ASL) is part of a sequence to fulfill the foreign language requirement. Students must have successfully completed SHS 221 or should be able to demonstrate intermediate ASL conversation skills. Students will learn technical vocabulary items and complex elements of ASL narratives. In this course, students will focus on the fluid use of ASL across various registers and situations. Special emphasis will be placed on receptive fluency of complex constructions in ASL. Same as LING 321. Approved for letter and S/U grading. Prerequisite: SHS 221 or equivalent language skills.

SHS 352 Hearing Health and Society credit: 3 Hours.

An analysis of how hearing loss influences behavior of individuals and interactions among individuals within larger social/societal groups across the lifespan. Considers issues associated with early detection of hearing loss and promoting hearing conservation in different environments. Approaches to promoting behaviors that enhance communication in the presence of hearing loss will be explored. Philosophical, policy, and cultural controversies for defining hearing loss as a disability will be examined. Each of these topics will be considered within the interplay between the individual person, culture, age, disability, educational environment, community, and social/family interactions.

SHS 370 Civic Engagement in Wellness credit: 3 Hours.

Same as AHS 365, CHLH 365, KIN 365, and RST 365. See KIN 365.

SHS 375 Comm Partners & Health credit: 3 Hours.

Combines a community-based volunteer experience with class-based readings/discussion to introduce students to the study of communication in context. Students will use learning journals to document their volunteer experiences, describe the characteristics of conversational interactions they observe, and reflect on their own skills as flexible communication partners with people of various backgrounds and abilities and in a variety of clinical and professional settings. Includes a one-hour weekly discussion section (taught by SHS faculty/instructional staff) and three-four hour weekly community volunteer experiences (supervised by volunteer site employees). Same as AHS 375 and KIN 375. May be repeated in separate terms to a maximum of 6 hours.

SHS 380 Comm Competence and Disorders credit: 3 Hours.

This course explores ways of defining and documenting communicative competence for individuals with communication disorders in everyday interactions. It introduces students to theories of communication-in-context and methods of discourse analysis. Students will critically review research on discourse of individuals with communication disorders across the lifespan and discuss its relevance to clinical practice. Prerequisite: Minimum sophomore standing or consent of instructor.

SHS 383 Special Topics credit: 3 or 4 Hours.

Lecture course in topics of current interest in speech and hearing science; specific subject matter announced in the Class Schedule. May be repeated if topics vary.

SHS 385 Evidence-Based Practice in Communication Sciences and Disorders credit: 3 Hours.

This course is designed to examine how the field of Speech and Hearing Science creates knowledge or evidence to support the assessment and intervention for individuals with communication disorders. Students will gain an introductory understanding of clinical research methodology and become familiar with the process of selecting evidence-based practices. Prerequisite: Sophomore standing or consent of instructor.

SHS 390 Individual Study credit: 2 to 4 Hours.

Individual investigation of special problems. May be repeated to a maximum of 6 hours. Prerequisite: Ten hours of speech and hearing science, and written approval by the faculty members who will supervise the student's work.

SHS 395 Honors Individual Study credit: 2 Hours.

Individual study leading either to a thesis or to departmental honors. May be repeated to a maximum of 4 hours. Prerequisite: Senior standing; a cumulative grade point of 3.5 or consent of the head of the department.

SHS 410 Stuttering: Theory & Practice credit: 3 or 4 Hours.

Study of the theoretical and research literature concerning the causes, diagnosis, and treatment of stuttering and an analysis of clinical procedures in stuttering therapy. 3 undergraduate hours. 4 graduate hours. Prerequisite: For undergraduate credit, students must have senior level status in the SHS Program or consent of instructor. For graduate credit, students must have graduate level status in SHS Program or consent of instructor. Additional work involved.

SHS 411 Normal and Disordered Voice credit: 3 or 4 Hours.

Study of the biomechanics of normal and disordered voice production with application to both clinical and pedagogical voice training and care. 3 undergraduate hours. 4 graduate hours. Additional work is involved for 4 credit hours.

SHS 427 Language and the Brain credit: 3 or 4 Hours.

How the human brain supports production and comprehension of language. Topics covered include: neuroanatomy of language; neuroimaging of language; language disorders; brain lateralization for language; bilingualism and the brain; sign language and the brain. Same as LING 427 and PSYC 427. 3 undergraduate hours. 4 graduate hours. Prerequisite: One of PSYC 210, PSYC 224, PSYC 248, LING 225, SHS 170, SHS 171, or consent of instructor.

SHS 430 Devel & Disorders Phonol Artic credit: 3 or 4 Hours.

Survey of basic knowledge concerning normal and deviant phonological development, and principles for applying this knowledge to the assessment and remediation of phonological disorders. 3 undergraduate hours. 4 graduate hours. Prerequisite: For undergraduate credit, students must have senior level status in the SHS Program or consent of instructor. Additional work is involved for 3 hours. For graduate credit, students must have graduate level status in the SHS Program or consent of instructor. Additional work involved for 4 hours.

SHS 431 Lang Disorders Preschool Child credit: 3 or 4 Hours.

Advanced study of early language milestones, processes, and theories; examination of the nature and character of disordered language acquisition in preschool children, and evaluation of current theory and intervention research in the area. 3 undergraduate hours. 4 graduate hours. Prerequisite: For undergraduate credit, students must have senior level status in the SHS program or consent of instructor. For graduate credit, students must have graduate level status in the SHS Program or consent of instructor. Additional work involved for 4 hours credit.

SHS 450 Intro Audiol & Hear Disorders credit: 4 Hours.

Review of the history of audiology as a profession; study of symptoms, causes, and treatment of hearing losses; and principles and application of basic audiometry. 4 undergraduate hours. 4 graduate hours. Prerequisite: Consent of Instructor.

SHS 451 Aural Rehab Children to Adults credit: 2 to 4 Hours.

Principles and methods of clinical and classroom retraining of the hard-of-hearing; includes lip reading, auditory training, speech disorders and conservation, and counseling. 2 to 4 undergraduate hours. 2 to 4 graduate hours. Prerequisite: Consent of instructor.

SHS 470 Neural Bases Spch Lang credit: 4 Hours.

Advanced study of neuroanatomy and neurophysiology with emphasis on current research pertaining to nervous system structures and functions important for speech and language. Critical analyses of current theories of the function of neural mechanisms utilized in speech and language. 4 undergraduate hours. 4 graduate hours. Prerequisite: SHS 300 and SHS 301, or equivalent, or consent of instructor.

SHS 473 Augmentative & Alt Comm credit: 2 to 4 Hours.

Introduces students to the field of augmentative and alternative communication (AAC), to the range of assistive technologies, and to diagnostic and treatment approaches used by speech-language pathologists. Focuses on the communicative needs of adults and children with acquired communication disorders in a variety of settings (e.g., hospital, school, home, work). 2 to 4 undergraduate hours. 2 to 4 graduate hours. Prerequisite: For undergraduate credit, 2 or 3 hours, students must have senior level status in the SHS Program, or consent of instructor. Additional work is involved for 3 hours. For graduate credit, 2 to 4 hours, students must have graduate level status in the SHS Program, or consent of instructor. Additional work involved for 4 hours.

SHS 475 Prepracticum in SHS credit: 1 to 2 Hours.

A mentoring experience in which students will be paired with clinical instructors in SHS and provided opportunities to observe clinical speech-language pathology and audiology sessions in a variety of settings. Prepracticum is designed to provide students: 1) initial opportunities to integrate course work with clinical practice; 2) supported experiences in documentation/data collection skills used in clinical settings; and 3) supervised observation hours required by the American Speech-Language and Hearing Association (ASHA) for certification as a Speech-Language Pathologist or Audiologist. 1 to 2 undergraduate hours. No graduate credit. Approved for S/U grading only. May be repeated in the same or separate terms to a maximum of 2 hours.

SHS 477 Beginning Practicum in SHS credit: 1 to 3 Hours.

Mentored experience in which students are paired with a clinical instructor in SHS and provided opportunities to assist in the ongoing management of clinical cases in a variety of settings. The beginning practicum is designed for students with less than a year of supervised clinical experience(i.e. 100 or fewer contact hours as defined by the American Speech-Language Hearing Assoc.-ASHA). Working with the clinical team, the beginning practicum will provide students with: 1) supported opportunities to assist in all aspects of clinical practice (e.g., diagnosis, intervention, documentation, team meetings/planning); 2) opportunities to obtain supervised contact hours required by ASHA for certification in Speech-Language Pathology or Audiology. 1 to 3 undergraduate hours. 1 to 3 graduate hours. May be repeated in same term to a maximum of 3 undergraduate or 4 graduate hours. May be repeated in separate terms to a maximum of 3 undergraduate or 6 graduate hours. Prerequisite: For students pursuing clinical preparation in speech-language pathology and/or audiology.