

SPEECH AND HEARING SCIENCE (SHS)

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

Courses

SHS 111 Living-Learning ASL Part 1 credit: 2 Hours. (<https://courses.illinois.edu/schedule/terms/SHS/111/>)

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. (<https://courses.illinois.edu/schedule/terms/SHS/112/>)

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. (<https://courses.illinois.edu/schedule/terms/SHS/120/>)

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. (<https://courses.illinois.edu/schedule/terms/SHS/121/>)

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. (<https://courses.illinois.edu/schedule/terms/SHS/150/>)

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. (<https://courses.illinois.edu/schedule/terms/SHS/170/>)

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.

SHS 191 Freshmen Seminar credit: 0 to 9 Hours. (<https://courses.illinois.edu/schedule/terms/SHS/191/>)

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. (<https://courses.illinois.edu/schedule/terms/SHS/199/>)

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

SHS 200 General Phonetics credit: 3 Hours. (<https://courses.illinois.edu/schedule/terms/SHS/200/>)

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. (<https://courses.illinois.edu/schedule/terms/SHS/221/>)

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. (<https://courses.illinois.edu/schedule/terms/SHS/222/>) 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. (<https://courses.illinois.edu/schedule/terms/SHS/231/>) 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. (<https://courses.illinois.edu/schedule/terms/SHS/240/>) 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. (<https://courses.illinois.edu/schedule/terms/SHS/270/>) 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. (<https://courses.illinois.edu/schedule/terms/SHS/271/>) 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. (<https://courses.illinois.edu/schedule/terms/SHS/280/>) 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. (<https://courses.illinois.edu/schedule/terms/SHS/291/>) 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. (<https://courses.illinois.edu/schedule/terms/SHS/300/>) Introduction to the anatomic and physiologic characteristics of the normal speech mechanism. Same as LING 300.

SHS 301 General Speech Science credit: 4 Hours. (<https://courses.illinois.edu/schedule/terms/SHS/301/>) 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. (<https://courses.illinois.edu/schedule/terms/SHS/320/>) Study of the correlates of language development from the prelinguistic period to adulthood.

SHS 321 American Sign Language III credit: 4 Hours. (<https://courses.illinois.edu/schedule/terms/SHS/321/>) 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 333 Children with Neurodevelopmental Disorders Across Communication Contexts credit: 3 Hours. (<https://courses.illinois.edu/schedule/terms/SHS/333/>) This course introduces students to the developmental issues involved in supporting communication for children with neurodevelopmental disorders (NDDs), with emphasis on the needs of children with autism spectrum disorders (ASD), fragile X syndrome (FXS), Down syndrome (DS), and Williams syndrome (WS), in family, educational and community contexts.

SHS 352 Hearing Health and Society credit: 3 Hours. (<https://courses.illinois.edu/schedule/terms/SHS/352/>) 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. (<https://courses.illinois.edu/schedule/terms/SHS/370/>) Same as AHS 365, CHLH 365, KIN 365, and RST 365. See KIN 365.

SHS 375 Comm Partners & Health credit: 3 Hours. (<https://courses.illinois.edu/schedule/terms/SHS/375/>)

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. (<https://courses.illinois.edu/schedule/terms/SHS/380/>)

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. (<https://courses.illinois.edu/schedule/terms/SHS/383/>)

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. (<https://courses.illinois.edu/schedule/terms/SHS/385/>)

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 389 Neuroplasticity and Communication credit: 3 Hours. (<https://courses.illinois.edu/schedule/terms/SHS/389/>)

The human brain adapts and changes continually throughout the human lifespan. This phenomenon is known as neuroplasticity. In this course, we will come to a better understanding of the principles of neuroplasticity, including during development, critical periods, learning and skill mastery, and reorganization/rehabilitation of functional abilities following brain damage. We will draw heavily on current research pertaining to neuroplasticity involving brain structures and functions important for communication.

SHS 390 Individual Study credit: 2 to 4 Hours. (<https://courses.illinois.edu/schedule/terms/SHS/390/>)

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. (<https://courses.illinois.edu/schedule/terms/SHS/395/>)

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. (<https://courses.illinois.edu/schedule/terms/SHS/410/>)

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. (<https://courses.illinois.edu/schedule/terms/SHS/411/>)

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. (<https://courses.illinois.edu/schedule/terms/SHS/427/>)

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, or consent of instructor.

SHS 430 Devel & Disorders Phonol Artic credit: 3 or 4 Hours. (<https://courses.illinois.edu/schedule/terms/SHS/430/>)

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. (<https://courses.illinois.edu/schedule/terms/SHS/431/>)

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. (<https://courses.illinois.edu/schedule/terms/SHS/450/>)

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. (<https://courses.illinois.edu/schedule/terms/SHS/451/>)

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. (<https://courses.illinois.edu/schedule/terms/SHS/470/>)

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. (<https://courses.illinois.edu/schedule/terms/SHS/473/>)

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. (<https://courses.illinois.edu/schedule/terms/SHS/475/>)

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. (<https://courses.illinois.edu/schedule/terms/SHS/477/>)

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.

SHS 500 Exper Phon I Spch Physiol credit: 4 Hours. (<https://courses.illinois.edu/schedule/terms/SHS/500/>)

Theoretical consideration of speech as motor behavior, special reference to physiological investigations of normal respiration, phonation, and supralaryngeal articulation; and survey of the experimental literature in articulatory phonetics. Same as LING 575. Prerequisite: Consent of instructor.

SHS 501 Exper Phon II Spch Acous Perc credit: 4 Hours. (<https://courses.illinois.edu/schedule/terms/SHS/501/>)

Theoretical consideration of speech as an acoustical phenomenon; special reference to acoustical investigations of the laryngeal source and radiated speech signal; and survey of the experimental literature in acoustic phonetics and speech perception. Same as LING 576. Prerequisite: Consent of instructor.

SHS 510 Advanced Seminar in Stuttering credit: 4 Hours. (<https://courses.illinois.edu/schedule/terms/SHS/510/>)

Advanced study of stuttering disorders; topics vary, but emphasis is placed on research, measurement, evaluation, and methods. Prerequisite: SHS 410 or consent of instructor.

SHS 511 Assessment and Management of Voice Disorders credit: 4 Hours. (<https://courses.illinois.edu/schedule/terms/SHS/511/>)

Study of the anatomy, pathophysiology, etiology, acoustics, and perception of abnormal voice production, including foundational skills for assessment, differential diagnosis, and management of voice disorders. 4 graduate hours. No professional credit. Prerequisite: SHS 300, SHS 301, SHS 411 or equivalent or consent of instructor.

SHS 512 Orofacial Anomalies credit: 2 to 4 Hours. (<https://courses.illinois.edu/schedule/terms/SHS/512/>)

Evaluation of current theories and intervention research associated with cleft palate and orofacial anomalies. Advanced study and critical analysis of speech, dental, and surgical treatment procedures. Prerequisite: SHS 300, SHS 301 or equivalent or consent of instructor.

SHS 513 Assessment and Management of Dysphagia credit: 4 Hours. (<https://courses.illinois.edu/schedule/terms/SHS/513/>)

Study of the anatomy, physiology, and pathophysiology of the oral and pharyngeal stages of swallowing and critical review of the research literature pertaining to methods for diagnosis and treatment of dysphagia. Prerequisite: SHS 300 or equivalent and SHS 470, or consent of instructor.

SHS 514 Motor Speech Disorders credit: 4 Hours. (<https://courses.illinois.edu/schedule/terms/SHS/514/>)

Study of the etiology and symptomatology of pediatric and adult speech problems resulting from neurological impairment, and critical review of the research literature pertaining to methods for assessment and treatment of these disorders. Prerequisite: SHS 300 or equivalent and SHS 470, or consent of instructor.

SHS 520 Language Science credit: 4 Hours. (<https://courses.illinois.edu/schedule/terms/SHS/520/>)

Study of recent research and theory in neurolinguistics, psycholinguistics, and sociolinguistics. Intensive examination of data collection and analysis procedures in language acquisition, and interpretation of research results relative to different age groups. Implications for clinical practice and clinical research in language disorders are addressed. Prerequisite: SHS 320 or equivalent, or consent of instructor.

SHS 532 Lang Disorders Schl-Age Child credit: 2 to 4 Hours. (<https://courses.illinois.edu/schedule/terms/SHS/532/>)

Advanced study of the nature of language impairments and language/learning disabilities found in the school-age population, and ramifications for academic success and social development; critical review of theoretical models and empirical evidence of language learning in older children; evaluation of research in the diagnosis and treatment of language impairments in older children. Prerequisite: SHS 320 or equivalent, or consent of instructor.

- SHS 533 Advanced Language Diagnostics credit: 2 to 4 Hours. (<https://courses.illinois.edu/schedule/terms/SHS/533/>)
Advanced study of the diagnosis of language disorders in children from infancy through adolescence; particular emphasis on critical evaluation of current methods in assessment, the development of problem-solving skills, and the application of computer technology in language analysis
Prerequisite: SHS 520 or equivalent, or consent of instructor.
- SHS 534 Aphasia and Related Disorders credit: 2 to 4 Hours. (<https://courses.illinois.edu/schedule/terms/SHS/534/>)
Advanced study of the communication disorders resulting from neurological impairments in adults: critical analysis of the research literature, examination of current theories regarding aphasia and related disorders; evaluation of existing paradigms of diagnosis and intervention.
Prerequisite: SHS 470 or consent of instructor.
- SHS 540 Psychoacoustics credit: 4 Hours. (<https://courses.illinois.edu/schedule/terms/SHS/540/>)
Advanced study of physical nature of sound and its measurement; theory and practice of psychophysics, including the various aspects of psychoacoustics (sensitivity, masking, loudness, pitch, binaural hearing, speech perception) and the nonlinear nature of the auditory system.
Prerequisite: SHS 240 or equivalent.
- SHS 541 Clinical Auditory Anat & Phys credit: 4 Hours. (<https://courses.illinois.edu/schedule/terms/SHS/541/>)
The objective of the course is for students to gain an understanding of the structure and function of the peripheral and central auditory system from a clinically oriented perspective. Clinically relevant topics on the pathophysiology of the auditory system will be presented. Prerequisite: SHS 240, SHS 450 or equivalent, or consent of instructor.
- SHS 542 Signals and Systems credit: 4 Hours. (<https://courses.illinois.edu/schedule/terms/SHS/542/>)
Provides an overview of the fundamental theory of signals and systems analysis with applications to hearing and speech sciences. Topics include: Introduction to MATLAB, time and frequency domain characterizations of signals and of systems, analyses of signals through systems, time/frequency relations, spectrograms, applications to hearing (e.g., hearing aid and cochlear implant signal processing), applications to speech, and digital signal processing. Practical experience with signal processing (primarily in MATLAB) will supplement lectures. No explicit background in signal processing or MATLAB is assumed. 4 graduate hours. No professional credit.
- SHS 543 Business Planning in Audiology credit: 2 Hours. (<https://courses.illinois.edu/schedule/terms/SHS/543/>)
Provides graduate students with an overview of the business planning and management aspects of audiology. Students will learn about the tools needed to start or purchase a practice and understand the economics of audiology. The concepts discussed in this course will be relevant to a variety of audiology employment settings, including private practice. 2 graduate hours. No professional credit. Prerequisite: Restricted to graduate students.
- SHS 550 Assess Audition & Aud Disorder credit: 4 Hours. (<https://courses.illinois.edu/schedule/terms/SHS/550/>)
Study of technical and clinical aspects of audiological assessment and auditory disorders; critical analysis of clinical and experimental literature; laboratory experience in audiological assessment techniques.
Prerequisite: SHS 240, SHS 450, or equivalent, or consent of instructor.
- SHS 551 Electrophys Indices Audition credit: 4 or 5 Hours. (<https://courses.illinois.edu/schedule/terms/SHS/551/>)
Study of technical and clinical aspects of electrophysiologic measures of audition; critical analysis of clinical and experimental literature; laboratory experience in electrophysiologic techniques. 4 or 5 graduate hours. No professional credit. Prerequisite: SHS 550 or consent of instructor.
- SHS 552 Diag Hear Impair Infants Child credit: 4 Hours. (<https://courses.illinois.edu/schedule/terms/SHS/552/>)
Study of the major etiologies underlying hearing impairments encountered in the pediatric population, program models for infants and young children at risk for hearing impairment, behavioral and physiologic issues in assessment and evaluation of residual hearing, and selection of hearing aids and other sensory prosthetic devices. Prerequisite: SHS 550.
- SHS 553 Hearing Aids and Amplification credit: 4 Hours. (<https://courses.illinois.edu/schedule/terms/SHS/553/>)
Study of technical and clinical aspects of personal hearing aids and amplification devices; survey of clinical and experimental literature; laboratory experience in electroacoustic and real-ear measurement, earmold impressions and modification procedures, and solving fitting problems. Prerequisite: SHS 550.
- SHS 554 Advanced Audiological Assess credit: 4 Hours. (<https://courses.illinois.edu/schedule/terms/SHS/554/>)
Seminar on current research in advanced audiology, with emphasis on experimental and clinical protocols involving electrophysiologic and behavioral measures in areas including newborn auditory screening using evoked potentials, intraoperative and intensive care unit monitoring, brain-mapping, event-related potentials, central auditory assessment, and computerized assessment of balance function. Prerequisite: SHS 551 or equivalent, or consent of instructor.
- SHS 555 Comm Lang Probs Hear Impaired credit: 4 Hours. (<https://courses.illinois.edu/schedule/terms/SHS/555/>)
Advanced course in the problems and procedures involved in the acquisition of language and communication by persons with severe hearing impairment, particularly those with profound prelingual deafness; emphasis on research and measurement in the development of speech, speechreading, residual hearing, reading, written language, and manual communication, including finger spelling and the language of signs; and stress on the applications of recent approaches in linguistics and psycholinguistics to language development. Prerequisite: Consent of instructor.
- SHS 556 Sens Prosth Devices Hear Loss credit: 4 Hours. (<https://courses.illinois.edu/schedule/terms/SHS/556/>)
Seminar on current research in signal processing approaches and experimental protocols for the development and fitting of hearing aids, tactile aids, cochlear implants, and assistive listening devices. Prerequisite: SHS 553 or consent of instructor.
- SHS 557 Adv Clin Prac Aud Assess Rehab credit: 1 to 8 Hours. (<https://courses.illinois.edu/schedule/terms/SHS/557/>)
Supervised assessment and management of patients. Includes audiological evaluation techniques; treatment counseling; hearing aid selection, evaluation, and dispensing; and aural rehabilitation therapy. External placement in a variety of sites is available as well as in the departmental Audiology Clinic. May be repeated with approval. Prerequisite: Graduate standing, plus SHS 240, SHS 450, SHS 451, or equivalent coursework and consent of instructor.

SHS 558 Tinnitus credit: 2 Hours. (<https://courses.illinois.edu/schedule/terms/SHS/558/>)

This advanced seminar on tinnitus covers the types of tinnitus, pathophysiology of chronic subjective/sensorineural tinnitus, latest research involving both animal and human studies, assessment of tinnitus, and management of tinnitus. It examines the complexity of tinnitus, its consequences for individuals and societies, and how health-care providers, specifically audiologists, may mitigate its impact. 2 graduate hours. No professional credit. Prerequisite: SHS 541 or consent of instructor. Graduate student status in Speech and Hearing Science or consent of instructor.

SHS 559 Hearing Conservation credit: 2 Hours. (<https://courses.illinois.edu/schedule/terms/SHS/559/>)

Study of hearing conservation programs in various settings; study of auditory and non-auditory effects of noise; study of standards and regulations for hearing conservation programs. 2 graduate hours. No professional credit. Prerequisite: Consent of instructor. Restricted to graduate students only.

SHS 560 Audiological Assessment Lab credit: 2 Hours. (<https://courses.illinois.edu/schedule/terms/SHS/560/>)

Clinical laboratory experience in audiological assessment including the evaluation, identification, diagnosis and treatment of hearing loss. Patient counseling and case history intake skills are addressed. Prerequisite: SHS 550 or concurrent enrollment in SHS 550.

SHS 561 Medical Audiology credit: 4 Hours. (<https://courses.illinois.edu/schedule/terms/SHS/561/>)

Students will gain in-depth knowledge of the etiology, prevention, identification, diagnosis, and management of auditory disorders, with focus on pathophysiology, ototoxicity, and genetic influences. 4 graduate hours. No professional credit. Prerequisite: SHS 541 and SHS 550 or consent of instructor. Graduate students only.

SHS 562 Educational Audiology credit: 2 Hours. (<https://courses.illinois.edu/schedule/terms/SHS/562/>)

Provides in-depth understanding of educational needs for children with hearing loss, addressing the education process from birth through late adolescence. The course will include knowledge of educational options, classroom acoustics, auditory processes, amplification options, individualized education program (IEP) meetings, and classroom management. The course will focus on the collaboration and communication methodologies between educators, audiologists, speech-language pathologists and caregivers to determine the best educational placements and curriculum for a child with hearing loss. 2 graduate hours. No professional credit. Prerequisite: Restricted to graduate students.

SHS 563 Amplification Lab credit: 2 Hours. (<https://courses.illinois.edu/schedule/terms/SHS/563/>)

Clinical laboratory experience in the selection, testing, fitting and maintenance of current technology amplification devices. Prerequisite: Concurrent enrollment in SHS 553.

SHS 564 Vestibular Assessment and Rehabilitation credit: 4 Hours. (<https://courses.illinois.edu/schedule/terms/SHS/564/>)

This course on vestibular assessment and rehabilitation covers the anatomy and physiology of the vestibular system, common vestibular disorders and other causes of dizziness, bedside examination of the dizzy patient, administration and interpretation of vestibular tests including videonystamography (VNG) and electronystamography (ENG). It will also cover the role of audiologists and other health care professionals in the assessment and management of dizzy patients, and vestibular rehabilitation. 4 graduate hours. No professional credit. Prerequisite: Graduate student status or consent of instructor.

SHS 565 Teaching in the Professoriate credit: 4 Hours. (<https://courses.illinois.edu/schedule/terms/SHS/565/>)

Same as CHLH 565, KIN 565, RST 560. See KIN 565.

SHS 570 Quant Reasoning Spch Hear Sci credit: 2 or 4 Hours. (<https://courses.illinois.edu/schedule/terms/SHS/570/>)

Introduction to experimental designs and methods of statistical analysis in speech and hearing research. Prerequisite: Consent of instructor.

SHS 571 Clinical Sociolinguistics credit: 4 Hours. (<https://courses.illinois.edu/schedule/terms/SHS/571/>)

Clinical application of sociolinguistic concepts for communicatively impaired populations. Focuses on language difference, and utilizes technological strategies needed for assessment and intervention with linguistically diverse populations. Includes computer analysis of talk data from language disordered and linguistically different speakers. Prerequisite: Consent of instructor.

SHS 572 Counseling in Comm Disorders credit: 2 to 4 Hours. (<https://courses.illinois.edu/schedule/terms/SHS/572/>)

Focuses on counseling principles, theories, and methods useful to the speech-language pathologist and audiologist when working with communication disordered individuals and their families. Issues related to ethics, values, grief, culture, family systems, the impact of disability, referral sources and techniques for interviewing and counseling are discussed. Prerequisite: Consent of instructor.

SHS 574 Communication in Individuals with Autism Spectrum Disorders credit: 2 Hours. (<https://courses.illinois.edu/schedule/terms/SHS/574/>)

This is a graduate-level course on foundational issues in autism spectrum disorder (ASD) for speech-language pathologists and other professionals. It is intended to prepare them to understand this neurodevelopmental disorder and serve this unique population as key team members in assessment and intervention. Ninety percent of school-based professionals serve students with ASD. Content areas include diagnostic criteria (signs & symptoms), etiology, language and communication patterns, assessment, and interventions for individuals with ASD. 2 graduate hours. No professional credit. Prerequisite: Restricted to Graduate Students.

SHS 575 School Spch-Lang Clin Methods credit: 2 Hours. (<https://courses.illinois.edu/schedule/terms/SHS/575/>)

Study of methods and materials used in the schools by the speech and language clinician. Approved for S/U grading only. Prerequisite: Consent of instructor.

SHS 576 School Intrnshp Spch-Lang Path credit: 4 to 8 Hours. (<https://courses.illinois.edu/schedule/terms/SHS/576/>)

The student is assigned to a school-based speech-language pathologist for a practical learning experience in P-12 schools full-time for 8-16 weeks. The student is expected to apply knowledge learned in the academic and clinical portions of their program to the entire school caseload by the end of this experience. Approved for letter and S/U grading. May be repeated to a maximum of 8 graduate hours. Prerequisite: Forty graduate hours of coursework including a minimum of 6 graduate hours of clinical practicum in SHS 475 C, D, or E, or consent of instructor.

SHS 577 Advanced Practicum in SHS credit: 1 to 4 Hours. (<https://courses.illinois.edu/schedule/terms/SHS/577/>)

A mentored experience in which students are paired with a clinical instructor in SHS and provided opportunities to assist and take leadership roles in the ongoing management of clinical cases in a variety of settings. The advanced practicum is designed for students with more than a year of supervised clinical experience (i.e., more than 100 contact hours as defined by the American Speech-Language and Hearing Association-ASHA). Working within a clinical team, the advanced 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) take lead clinician and/or case management roles for some cases; 3) opportunities to obtain supervised contact hours required by the ASHA for certification in Speech-Language Pathology or Audiology. May be repeated with approval. Prerequisite: SHS 477.

SHS 579 Prof/Eth/Legal Issues AuD/SLP credit: 3 Hours. (<https://courses.illinois.edu/schedule/terms/SHS/579/>)

Emphasis will be placed on issues on ethical and professional integrity in speech and hearing clinical practice, including certification and licensure, quality assurance, evidence based practice, and health care and reimbursement. Prerequisite: SHS 555 or SHS 557.

SHS 580 Cochlear Implants credit: 4 Hours. (<https://courses.illinois.edu/schedule/terms/SHS/580/>)

Focuses on current cochlear implant technologies, principles of evidence-based practice of cochlear implant assessment and intervention by audiologists and speech-language pathologists, and empirical outcomes for children and adults. 4 graduate hours. No professional credit. Prerequisite: Graduate standing in the Department of Speech and Hearing Science.

SHS 581 Auditory Processing Disorders credit: 3 Hours. (<https://courses.illinois.edu/schedule/terms/SHS/581/>)

Study of experimental and clinical aspects of auditory processing disorders; critical analysis of clinical and experimental literature; laboratory experience in auditory processing assessment techniques. 3 graduate hours. No professional credit. Prerequisite: Consent of instructor. Restricted to graduate students.

SHS 586 Adv Sem Development Com Dis credit: 2 Hours. (<https://courses.illinois.edu/schedule/terms/SHS/586/>)

Study of theoretical and empirical research in typical and atypical developmental aspects of children's communication. Students will critically analyze and interpret the extant literature; lead seminar discussions and write scholarly reviews; and/or design original research projects. Specific topics will vary and be announced in the Class Schedule. 2 graduate hours. No professional credit. Approved for letter and S/U grading. May be repeated in separate terms, if topics vary.

SHS 587 Advanced Seminar in Acquired Communication Disorders credit: 2 Hours. (<https://courses.illinois.edu/schedule/terms/SHS/587/>)

Study of theoretical and empirical research in acquired communication disorders in adulthood. Students will critically analyze and interpret the extant literature; lead seminar discussions and write scholarly reviews; and/or design original research projects. Specific topics will vary and be announced in the Class Schedule. 2 graduate hours. No professional credit. Approved for letter and S/U grading. May be repeated in separate terms, if topics vary.

SHS 588 Adv Sem Neural Bases Com Dis credit: 2 Hours. (<https://courses.illinois.edu/schedule/terms/SHS/588/>)

Study of theoretical and empirical research in the neural bases of speech, language, hearing, cognitive, and/or swallowing disorders in pediatric and adult populations. Students will critically analyze and interpret the extant literature; lead seminar discussions and write scholarly reviews; and/or design original research projects. Specific topics will vary and be announced in the Class Schedule. 2 graduate hours. No professional credit. Approved for Letter and S/U grading. May be repeated in separate terms, if topics vary.

SHS 590 History of CSD credit: 4 Hours. (<https://courses.illinois.edu/schedule/terms/SHS/590/>)

This doctoral seminar explores the evolution of the field of Communication Sciences and Disorders (CSD) by examining: 1) the historical research base of the field; 2) critical research and practice issues that have emerged across the history of field; and 3) the contributions of key figures in the field. The course is designed to help students understand how the discipline has been organized and where their own research interests fit with the respect to the history of the discipline. Prerequisite: Doctoral students in SHS or consent of instructor.

SHS 592 Prosem Spch & Hear Sci credit: 0 to 1 Hours. (<https://courses.illinois.edu/schedule/terms/SHS/592/>)

Required seminar for all graduate students; involves reporting of ongoing research of faculty, visiting researchers, and students as well as discussion of topics related to professional and academic research careers. Approved for S/U grading only. May be repeated up to 4 credit hours toward degree requirements as topics vary.

SHS 593 Special Problems credit: 1 to 8 Hours. (<https://courses.illinois.edu/schedule/terms/SHS/593/>)

Investigative projects in speech and hearing not including theses. 1 to 8 graduate hours. No professional credit. Approved for Letter and S/U grading. May be repeated to a maximum of 8 hours. Prerequisite: Consent of instructor.

SHS 594 PhD Early Research Project credit: 1 to 4 Hours. (<https://courses.illinois.edu/schedule/terms/SHS/594/>)

This mentored research experience provides individualized opportunities for PhD students to conduct research projects under the direction of their faculty mentors/advisors. Approved for S/U grading only. May be repeated in separate terms to a maximum of 8 hours.

SHS 599 Thesis Research credit: 0 to 16 Hours. (<https://courses.illinois.edu/schedule/terms/SHS/599/>)

Individual research in the various areas of speech and hearing science. Approved for S/U grading only. May be repeated.