Speech, Language, and Hearing Sciences (SLHS)

**SLHS 1000: Introduction to Communication Science and Disorders**
Nature of communication and its development; types of speech, language and hearing disorders; professional preparation, settings, and work of speech-language pathologists and audiologists. Course graded on S/U basis only.

Credit Hours: 1

**SLHS 1060: Human Language**
(same as ANTHRO 1060, LINGST 1060 and ENGLISH 1060). General introduction to various aspects of linguistic study. Elementary analysis of language data with some attention to application of linguistic study to other disciplines.

Credit Hours: 3

**SLHS 1100: American Sign Language I**
Introduction to American Sign Language (ASL). Development of basic expressive and receptive skills in ASL, the manual alphabet, numbers, and signed vocabulary. Includes an overview of ASL syntax and grammar. Course graded on A-F basis only.

Credit Hours: 5

**SLHS 1200: American Sign Language II**
This course is designed to increase students’ understanding of American Sign Language. Students will increase their sign vocabulary, expressive and receptive skills, an understanding of ASL syntax and grammar. Graded on A-F basis only.

Credit Hours: 5

Prerequisites: SLHS 1100 or equivalent

**SLHS 2120: Survey of Communication Disorders**
Systematic survey of the disorders of speech, language and hearing.

Credit Hours: 3

**SLHS 2150: American Sign Language III**
This course expands on vocabulary and signing skills developed in ASL II. Includes review of ASL grammar and extensive discussions of ASL linguistic structure and Deaf culture. Class is conducted entirely in ASL. Course graded on A-F basis only.

Credit Hours: 3

Prerequisites: SLHS 1200 with minimum grade of C or instructor's consent

**SLHS 3010: American Phonetics**
(same as LINGST 3010). Analysis of production and acoustics of the sounds of speech with an emphasis on American English; practice in broad and narrow transcription using the International Phonetic Alphabet.

Credit Hours: 3

Prerequisites: Restricted to Communication Science and Disorders majors only

**SLHS 3020: Normal Language Development**
Language development in children and changes in language processing during normal aging. Cognition and language; language learning processes; language sample analysis; relationship between spoken and written language.

Credit Hours: 3

Prerequisites: Communication Science and Disorders majors only

**SLHS 3220: Speech Acoustics**
(same as LINGST 3220). An introduction to the acoustic aspects of speech as they relate to the respiratory, phonatory, resonatory, and articulatory systems.

Credit Hours: 2

Prerequisites: Communication Science and Disorders majors only or instructor's consent

**SLHS 3230: Hearing Science**
Introduction to the nature of sound and its measurement; anatomy and physiology of the auditory and vestibular systems; psychoacoustic methods and phenomena.

Credit Hours: 3

Prerequisites: Restricted to Communication Science and Disorders majors only

**SLHS 3950: Research Methods in Speech and Language Sciences**
This course is designed to help students gain an understanding of how research in the discipline of speech and language sciences is conducted and how to differentiate between good-quality and poor-quality research design. We will explore the importance of the scientific method in conducting rigorous research. The course will enable students to explore the different types of research conducted within the discipline and will
prepare students for an introductory experience in a research lab. Graded on A-F basis only.

**SLHS 4001: Topics in Speech, Language and Hearing Science**
Organized study of selected topics. Subjects and earnable credit may vary from semester to semester. May be repeated with program consent.

**Credit Hours:** 1-99  
**Prerequisites:** junior standing and instructor's consent

**SLHS 4010: Introduction to Speech, Language, and Hearing Sciences**
Overview of speech, language, and hearing sciences with emphasis on developmental disorders. Introduction to assessment and treatment approaches.

**Credit Hours:** 3  
**Prerequisites:** Communication Science and Disorders majors only

**SLHS 4020: Language Disorders in Children**
Overview of language disorders from early childhood through adolescence. Includes language disorders as primary disability and as secondary to other disabilities. Introduction to assessment and intervention.

**Credit Hours:** 3  
**Prerequisites:** Communication Science and Disorders majors only

**SLHS 4020W: Language Disorders in Children - Writing Intensive**
Overview of language disorders from early childhood through adolescence. Includes language disorders as primary disability and as secondary to other disabilities. Introduction to assessment and intervention.

**Credit Hours:** 3  
**Prerequisites:** Communication Science and Disorder majors only

**SLHS 4030: Language Disorders of Adults**
Introduction to acquired adult language disorders. Review of neuroanatomy/physiology, etiology and symptomatology, with introduction to assessment and treatment procedures.

**Credit Hours:** 2  
**Prerequisites:** Communication Science and Disorders majors only

**SLHS 4210: Fluency Disorders**

**Credit Hours:** 2  
**Prerequisites:** Communication Science and Disorders majors only

**SLHS 4220: Voice Disorders**
Introduction to voice disorders in children and adults. Includes overview of perceptual and instrumental assessment procedures and selected treatment approaches.

**Credit Hour:** 1  
**Prerequisites:** Communication Science and Disorders majors only

**SLHS 4230: Disorders of Phonology and Articulation**
Overview of disorders of use and production of speech sounds with an emphasis on developmental disorders. Introduction to assessment and treatment.

**Credit Hours:** 3  
**Prerequisites:** Communication Science and Disorders majors only

**SLHS 4320: Introduction to Audiology**
Principles and techniques of audiological testing; etiologies of hearing impairment; current technologies in rehabilitation.

**Credit Hours:** 3  
**Prerequisites:** SLHS 3230; Communication Science and Disorders majors only or instructor's consent

**SLHS 4340: Aural Rehabilitation**
(cross-leveled with SLHS 7340). Identification, evaluation, and management of problems associated with hearing impairment in both children and adults. Includes issues related to speech/language development, communication, education, and social factors.

**Credit Hours:** 3  
**Prerequisites:** Communication Science and Disorders majors only

**SLHS 4340W: Aural Rehabilitation-Writing Intensive**
(cross-leveled with SLHS 7340). Identification, evaluation, and management of problems associated with hearing impairment in both children and adults. Includes issues related to speech/language development, communication, education, and social factors.

**Credit Hours:** 3  
**Prerequisites:** Communication Science and Disorders majors only

**SLHS 4430: Neurophysiology for Speech, Language, and Hearing**
(cross-leveled with SLHS 7430). Principles of basic neurophysiology, emphasizing correlation of structure and function of the nervous system.

**Credit Hours:** 3  
**Prerequisites:** Communications Science and Disorders majors only

**SLHS 4830: Individual Differences in Language Processing**
(cross-leveled with SLHS 7830). Examination of the normal variations exhibited across individuals in the acquisition, use, and representation of language. Also considered are individual differences seen in second language learning, the aging process, and language disorders.

**Credit Hours:** 2  
**Prerequisites:** instructor's consent

**SLHS 4840: Language and Development in Infancy**
(cross-leveled with SLHS 7840). Overview of theory and research on the foundations and development of language in infancy (0 to 2 years), with an emphasis on relevant, interrelated areas of development, individual differences, early recognition of delay, and assessment.

**Credit Hours:** 3  
**Prerequisites:** senior standing required. Instructor's consent required

**SLHS 4840: Language and Development in Infancy**
(cross-leveled with SLHS 7840). Overview of theory and research on the foundations and development of language in infancy (0 to 2 years), with an emphasis on relevant, interrelated areas of development, individual differences, early recognition of delay, and assessment.

**Credit Hours:** 3  
**Prerequisites:** senior standing required. Instructor's consent required

**SLHS 4850: Bilingualism**
(cross-leveled with SLHS 7850). This course is intended to establish an understanding of bilingual language processing and of the consequences of bilingualism on cognition. The course begins by reviewing the individual differences that modulate language processing in monolinguals and the factors that predict good second language learning outcomes in adults. This sets up the stage of an in-depth discussion of the ways in which second language proficiency changes the dynamics of language production and comprehension, as well as the cognitive performance across the lifespan. Students will be introduced to theories and models of
bilingual language processing and will learn to evaluate evidence for and
against the bilingual advantage and the benefits of bilingualism in healthy
aging and recovery from acquired language deficits, such as aphasia.
Students will also learn to identify patterns of language performance
that distinguish bilinguals from monolinguals and from individuals with
language disorders. Graded on A-F basis only.

**Prerequisites:**

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<th>Credit Hour</th>
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<td>3</td>
<td>Junior or Senior standing</td>
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**SLHS 4900: Clinical Observation in Communication Disorders**

Directed clinical observations designed to prepare the student for clinical
practicum. Required for professional certification. Graded on a S/U basis
only.

**Credit Hours:** 2

**Prerequisites:** Communication Science and Disorders majors only

**SLHS 4945: Clinical Apprenticeship in Communication Disorders**

Supervised observation and clinical experience in speech-language
pathology or audiology for undergraduates.

**Credit Hour:** 1-3

**Prerequisites:** senior standing and departmental consent.

**SLHS 4950: Research Apprenticeship**

Research apprenticeship with a faculty member, assisting in the
development and execution of research in communication processes and
 disorders. May be repeated to 9 hrs. maximum.

**Credit Hour:** 1-9

**Prerequisites:** instructor's consent

**SLHS 4960: Directed Reading in Communication Science and Disorders**

Independent reading; reports.

**Credit Hour:** 1-3

**Prerequisites:** instructor's consent

**SLHS 4990: Honors Thesis**

Individual honors thesis on a topic selected with a faculty advisor.
Requires planning, conducting, and writing up a research project under
the guidance of a faculty member. Successful completion of thesis and
maintenance of 3.3 GPA, leads to degree with departmental honors.
Graded on A-F basis only.

**Credit Hours:** 3

**Prerequisites:** Senior standing; 3.3 GPA; 3.5 GPA in Communication
Science and Disorders courses; instructor's consent. Restricted to
Communication Science and Disorders students only

**SLHS 7001: Topics in Speech, Language and Hearing Science**

Study of selected topics in speech pathology/audiology. Topic and credit
may vary from semester to semester. May be repeated for credit with
instructor and departmental consent.

**Credit Hour:** 1-99

**Prerequisites:** instructor's consent

**SLHS 7085: Problems in Speech, Language and Hearing Science**

Individual study not leading to thesis or dissertation.

**Credit Hour:** 1-99

**Prerequisites:** instructor's consent

**SLHS 7340: Aural Rehabilitation**

(cross-leveled with SLHS 4340). Identification, evaluation, and
management of problems associated with hearing impairment in
both children and adults. Includes issues related to speech/language
development, communication, education, and social factors.

**Credit Hours:** 3

**Prerequisites:** Communication Science and Disorders majors only

**SLHS 7430: Neurophysiology for Speech, Language, and Hearing**

(cross-leveled with SLHS 4430). Principles of basic neurophysiology,
emphasizing correlation of structure and function of the nervous system.

**Credit Hours:** 3

**Prerequisites:** Communication Science and Disorders majors or
instructor's consent

**SLHS 7480: Language and Development in Infancy**

(cross-leveled with SLHS 4840). Overview of theory and research on the
foundations and development of language in infancy (0 to 2 years), with
an emphasis on relevant, interrelated areas of development, individual
differences, early recognition of delay, and assessment.

**Credit Hours:** 3

**SLHS 7840: Language and Development in Infancy**

(cross-leveled with SLHS 4840). Overview of theory and research on the
foundations and development of language in infancy (0 to 2 years), with
an emphasis on relevant, interrelated areas of development, individual
differences, early recognition of delay, and assessment.

**Credit Hours:** 3

**Prerequisites:** instructor's consent

**SLHS 7850: Bilingualism**

(cross-leveled with SLHS 4850). This course is intended to establish an
understanding of bilingual language processing and of the consequences
of bilingualism on cognition. The course begins by reviewing the
individual differences that modulate language processing in monolinguals
and the factors that predict good second language learning outcomes in
adults. This sets up the stage of an in-depth discussion of the ways in
which second language proficiency changes the dynamics of language
production and comprehension, as well as the cognitive performance
across the lifespan. Students will be introduced to theories and models of
bilingual language processing and will learn to evaluate evidence for and
against the bilingual advantage and the benefits of bilingualism in healthy
aging and recovery from acquired language deficits, such as aphasia.
Students will also learn to identify patterns of language performance
that distinguish bilinguals from monolinguals and from individuals with
language disorders. Graded on A-F basis only.

**Credit Hours:** 3

**Prerequisites:** instructor's consent

**SLHS 8001: Topics in Speech, Language and Hearing Science**

Study of selected topics in speech pathology/audiology. Topic and credit
may vary from semester to semester. May be repeated for credit with
instructor and departmental consent.

**Credit Hour:** 1-99

**Prerequisites:** instructor's consent, instructor's

**SLHS 8020: Developmental Language Disorders**

Nature, etiology, assessment and management of childhood language
disorders.
SLHS 8030: Acquired Language Disorders
Etiology, symptomatology, assessment and rehabilitation of acquired neurogenic communication disorders in aphasia, traumatic brain injury, and dementia.
Credit Hours: 3
Prerequisites: Communication Science and Disorders students only

SLHS 8050: Research in Speech, Language and Hearing Science
Independent research leading to a report but not to a thesis or dissertation.
Credit Hour: 1-99
Prerequisites: instructor's consent

SLHS 8085: Problems in Speech, Language and Hearing Science
Individual study not leading to thesis or dissertation.
Credit Hour: 1-99
Prerequisites: instructor's consent

SLHS 8090: Research in Speech, Language and Hearing Science
Research leading to thesis or dissertation.
Credit Hour: 1-99
Prerequisites: instructor's consent. Graded on a S/U basis only

SLHS 8200: Motor Speech Disorders
Etiology, symptomatology, epidemiology, and prognosis of motor speech disorders resulting from acquired neurological damage. Emphasis on clinical assessment and rehabilitation procedures. Graded on A-F basis only.
Credit Hours: 3
Prerequisites: Communication Science and Disorders students only

SLHS 8210: Disorders of Fluency
Identification and remediation of fluency disorders in children and adults.
Credit Hours: 3
Prerequisites: Communication Science and Disorders students only

SLHS 8225: Voice Science and Voice Disorders
Diagnosis and management of communicative disorders resulting from pathologies or misuse of the phonatory system. Includes experience with pertinent laboratory instrumentation. Graded on A-F basis only.
Credit Hours: 3
Prerequisites: restricted to MHS CSD students; or with instructor's consent

SLHS 8230: Dysphagia
Etiology, symptomatology, and epidemiology of acquired and developmental swallowing disorders (dysphagia). Emphasis on instrumental and non-instrumental methods for assessing and treating dysphagia.
Credit Hours: 3
Prerequisites: Communication Science and Disorders students only

SLHS 8240: Cleft Palate/Craniofacial Disorders
Credit Hour: 1
Prerequisites: Communication Science and Disorders students only

SLHS 8250: Clinical Methods in Speech-Language Pathology
An introduction to clinical procedures and evidence-based intervention methods relating to speech and language disorders. Topics include session design, data collection, measurement of progress, reporting of clinical results, and various treatment options. Graded on A-F basis only.
Credit Hours: 3
Prerequisites: Communication Science and Disorders students only

SLHS 8260: Diagnosis in Speech-Language Pathology
General principles of diagnosis; specific diagnostic tools and procedures for various speech and language disorders.
Credit Hours: 3
Prerequisites: Communication Science and Disorders students only

SLHS 8300: Neurological Bases of Speech and Language
Structure and function of the human brain and nervous system including general organization, cranial nerves, basal ganglia, cerebellum, and descending motor pathways as related to the field of speech language pathology. Graded on A-F basis only.
Credit Hours: 2
Prerequisites: Communication Science and Disorders students only

SLHS 8320: Speech Sound Disorders
Principles of clinical assessment and treatment for speech sound disorders in children. Includes foundations in research on early speech sound acquisition, organic and developmental disorders, and treatment efficacy. Graded on A-F basis only.
Credit Hours: 2
Prerequisites: Communication Science and Disorders students only

SLHS 8420: Reading and Language Disabilities in School-Age Children
Theories, research, and practice in reading development and disorders. Assessment and remediation of reading disabilities related to language disorders of various etiologies including developmental language disorders and head injury.
Credit Hours: 2
Prerequisites: SLHS 4020 or SLHS 8020

SLHS 8430: Augmentative and Alternative Communication
Students will learn the principles of AAC assessment, methods of intervention, and types of technology available for individuals unable to communicate fully through speech. Graded on A-F basis only.
Credit Hours: 2
Prerequisites: Communication Science and Disorders students only
SLHS 8500: Issues in Professional Practice
Organizational, inter-professional, economic, legal, and ethical aspects of delivering speech, language, and hearing services. Graded on A/F basis only.

**Credit Hours:** 2  
**Prerequisites:** Communication Science and Disorders students only

SLHS 8600: Clinical Language Analysis
This course provides a theoretical framework for understanding the morphology, semantics, syntax, and pragmatics of English as well as practice in the analysis of typical and atypical language samples. Graded on A-F basis only.

**Credit Hours:** 3  
**Prerequisites:** Communication Science and Disorders students only

SLHS 8935: Clinical Practice in Audiology
Supervised practice in hearing screening, hearing conservation, and aural re/habilitation. May be repeated for credit. Graded on S/U basis only.

**Credit Hour:** 1

SLHS 8945: Clinical Practice in Speech-Language Pathology
Supervised clinical practice in speech pathology for graduate students. May be repeated for credit.

**Credit Hour:** 1-10  
**Prerequisites:** Communication Science and Disorders students only

SLHS 8960: Directed Reading in Speech, Language and Hearing Science
Independent reading; reports.

**Credit Hour:** 1-3  
**Prerequisites:** instructor's consent

SLHS 9050: Research in Speech, Language and Hearing Science
Independent research leading to a report but not to a thesis or dissertation.

**Credit Hour:** 1-99  
**Prerequisites:** instructor's consent

SLHS 9090: Research in Speech, Language and Hearing Science
Research leading to thesis or dissertation. Graded on a S/U basis only.

**Credit Hour:** 1-99  
**Prerequisites:** instructor's consent