Speech Pathology And Audiology

Department Information

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<tr>
<th>Speech Pathology and Audiology Faculty</th>
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<tr>
<td>Chair</td>
<td>Elizabeth M. Adams</td>
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<tr>
<td>Dean Emeritus</td>
<td>Talbott</td>
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<tr>
<td>Professor Emeritus</td>
<td>Dagenais, Evans, Sellers</td>
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<tr>
<td>Associate Professor Emeritus</td>
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<td>Associate Professors</td>
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<td>Assistant Professors</td>
<td>Choi, Flagge, Garand, Henbest, Mosley, Nichols, Rishiq, Roberts, Smith, Stanley</td>
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<td>Senior Instructor</td>
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Department of Speech Pathology and Audiology website
https://www.southalabama.edu/colleges/alliedhealth/speechandhearing

The mission of the Department of Speech Pathology and Audiology is to provide undergraduate, masters and doctoral programs that challenge the students to achieve the highest standards of academic learning, scientific inquiry and clinical excellence. The Department of Speech Pathology and Audiology seeks to deliver a comprehensive program of academic, research and clinical training in the areas of speech, language and hearing development and disorders. The Department offers a minor in Speech and Hearing Sciences, Bachelor of Science in Speech and Hearing Sciences, Master of Science in Speech-Language Pathology, Master of Science in Rehabilitation Sciences in Speech-Language Pathology, Doctor of Audiology, and Doctor of Philosophy in Communication Sciences and Disorders degree programs.

The undergraduate program in Speech and Hearing Sciences readies the graduate for a variety of career and educational options based on the knowledge gained from this degree and individual interests and skills. Students who complete the Master of Science in Speech-Language Pathology degree program will meet all the academic and practicum requirements to be eligible for the Clinical Fellowship (CF) that leads to national certification (CCC-SLP) by the American Speech-Language-Hearing Association (ASHA) and eligibility for the Alabama state licensure. Students who complete the Doctor of Audiology degree program will meet all the academic and practicum requirements for national certification (CCC-A) and will also be eligible for the Alabama state licensure.

The Department of Speech Pathology and Audiology offers a Master of Science in Rehabilitation Science, Speech-Language Pathology (MSRS SLP) degree aimed at providing students with rich, robust, clinically relevant, and evidence-based learning experiences. Graduates will have a strong understanding of entry-level and advanced clinical services, will utilize evidence-based research relevant to the field, demonstrate leadership skills that impact delivery of high quality care for patients, and develop skills needed to serve as a patient educator, clinical educator, or faculty member. This program is intended to support international clinicians and academicians wishing to gain further experience with a variety of disorders and principles of rehabilitation. This program is not accredited by the Council on Academic Accreditation in Audiology and Speech-Language Pathology (CAA) and does not lead to licensure or professional certification in the United States. Graduation from this program does not guarantee admission to a Master of Science in Speech-Language Pathology or Doctor of Audiology programs. Students enrolled in this program are not eligible for federal financial aid. Admission to the MSRS SLP program is on a competitive basis. For admissions information, visit the department’s website. The MSRS SLP program is an in-residence program requiring 30 credit hours.
The Master of Science in Speech-Language Pathology program at the University of South Alabama is accredited by the Council on Academic Accreditation in Audiology and Speech-Language Pathology (CAA) of the American Speech-Language-Hearing Association, 2200 Research Boulevard #310, Rockville, Maryland 20850, (800)-498-2071 or (301)-296-5700.

The Doctor of Audiology program at the University of South Alabama is accredited by the Council on Academic Accreditation in Audiology and Speech-Language Pathology (CAA) of the American Speech-Language-Hearing Association, 2200 Research Boulevard #310, Rockville, Maryland 20850, (800)-498-2071 or (301)-296-5700.

Areas Of Study

- Audiology (AuD)
- Communication Sciences and Disorders (PhD)
- Minor in Speech and Hearing Sciences
- Rehabilitation Sciences, Speech-Language Pathology (MSRS SLP)
- Speech and Hearing Sciences (BS SHS)
- Speech-Language Pathology (MSSLP)

Courses

**Allied Health Profs (AHP) (AHP)**

- **AHP 101 Freshman Sem in Allied Health** 2 cr
  A course for first-time students that assists with maximizing the student's potential to achieve academic success and to adjust responsibly to the individual and interpersonal challenges presented by college life. Taught in small groups, the course provides an introduction to the nature of higher education with special emphasis on health-related disciplines. Appropriate reading and writing assignments will be required.

- **AHP 390 Special Topics** 1 TO 9 cr
  The purpose of this course for the undergraduate student is to develop an improved understanding of culture, to recognize any cultural practices that affect health care, and to incorporate this understanding into the provision of care. Culture will be examined through writing, cultural experiences, and through collaboration.

- **AHP 510 IPE Autism Spectrum Disorders** 1 cr
  This foundational course is designed to prepare graduate students in OT, PT, SLP, MD and ED to provide high-quality services to individuals with autism spectrum disorder and other developmental disabilities. The emphasis will be on interprofessional education using team-based instruction to support effective interprofessional practice in both educational and health care settings. ADDITIONAL RESTRICTION: Students can only be enrolled following successful application and admission. Contact the course instructor for information on application.

- **AHP 590 Special Topics** 1 TO 9 cr
  Selected topics in Health Sciences. Requires special permission.

**Audiology (AUD) (AUD)**

- **AUD 681L Clinical Practicum I-Lab** 1 TO 3 cr
  Students will obtain experience administering audiologic assessments and intervention techniques with clinical populations in the USA Speech and Hearing Center or in off-campus clinical practicum sites under direct supervision. Co-requisite: AUD 681

- **AUD 682L Clinical Practicum II-Lab** 1 TO 3 cr
  Students will obtain experience administering audiologic assessments and intervention techniques with clinical populations in the USA Speech and Hearing Center or in off-campus clinical practicum sites under direct supervision. Co-requisite: AUD 682

- **AUD 683L Clinical Practicum III-Lab** 1 TO 3 cr
  Students will obtain experience administering audiologic assessments and intervention techniques with clinical populations in the USA Speech and Hearing Center or in off-campus clinical practicum sites under direct supervision. Co-requisite: AUD 683

- **AUD 590 Seminar in Audiology** 1 TO 6 cr
  This course is designed to provide the opportunity for in-depth study of special interest in Audiology. Requires approval of Department Chair.
AUD 612 Anatomy-Physio Hearing Mech 4 cr
Study of the anatomy and physiology of the nervous system, the anatomy and physiology of the outer, middle, inner ear, including the vestibular system, and the central auditory nervous system.

AUD 613 Psychoacoustics 3 cr
Study of the principles, procedures and research involved in the field of psychoacoustics and of the relationships between the physical dimensions of auditory stimuli and the resultant perceptual experience as well as the relationships among psychoacoustic testing and both auditory physiology and the audiologic evaluation process. Participation in laboratory assignments will be required.

AUD 614 Instrumentation and Acoustics 3 cr
Study of basic electricity, acoustics and measurement of sound properties, wave analysis, transducers, measuring and calibration systems, speech processing systems, and system interaction and integration.

AUD 616 Resrch Design Hearing Sci 3 cr
Research designs utilized in the hearing sciences; elements of research proposals and studies; how to critique a research study; how to conduct a literature review; APA format; students will be required to write precis of research articles and write a research proposal. Elements of modern statistics including sets and functions, probability theory, hypothesis testing, analysis of variance models, correlation, and regression.

AUD 621 Professional Issues 3 cr
This course will address a variety of professional issues such as organizations, societies, and their histories; codes of ethics; scopes of practice; credentialing and licensure; the development of the AUD; guidelines and position statements generated by ASHA and AAA; standards and best practices; methods and models of service delivery; and audiology practice management.

AUD 622 Medical Audiology 4 cr
This course will address acquired and congenital diseases and disorders of the outer, middle, and inner ear and the central auditory nervous system occurring across the lifespan; imaging techniques; non-audiologic medical and surgical interventions for these conditions; and cerumen management techniques; and appropriate methods for monitoring of patients prescribed potentially ototoxic medications.

AUD 623 Pharma & Ototox Monitoring 3 cr
This course will provide the basic science background necessary to understand the effects of medications on the auditory and balance systems. This course will also address drug treatment strategies for hearing loss and balance disorders. Topics will include mechanisms of drug actions, side effects, how age and disease affect these mechanisms, and specific effects of certain drugs on the hearing and balance system. This course will additionally address appropriate methods for identification and monitoring of patients prescribed potentially ototoxic medications.

AUD 630 Electroac Char of Amp Systems 3 cr
This course will address styles and types of earmolds, hearing aids, and assistive listening devices; components common to all amplification systems as well as optional features (such as directional microphones, volume controls, telecoils, etc.) and their electroacoustic properties and functioning; use of ANSI standards; physical, acoustic and electroacoustic modifications of earmolds and amplification systems.

AUD 631 Sel, Fit & Verif of Amp Sys 3 cr
This course will address the principles of selection, fitting, and verification of amplification systems, including hearing aids and assistive listening devices; subjective and objective audiologic assessments used to determine need for, select, and fit appropriate amplification systems for patients of all ages; and techniques used to select and fit amplification systems. The course will also address subjective and objective verification procedures, specifically addressing the importance of including Real-Ear Measures and subjective self-assessment measures in the amplification process.

AUD 632 Hearing Aid Lab 1 cr
This course will address the principles of verification and validation; tools used to verify appropriate fitting of amplification systems (such as real-ear probe-mic equipment) and techniques used to validate fitting (such as software packages, and subjective and objective audiologic measures); cochlear implant remapping.

AUD 633 Advanced Sensory Aids 3 cr
This course will address advanced technologies for individuals with hearing impairment such as cochlear and brainstem implants, vibrotactile aids, and implantable devices, as well as the selection and fitting of these technologies.

AUD 640 Basic Audiologic Assessment 3 cr
This course will address the principles of cross-check, the test battery approach, differential diagnosis, relevant test equipment, instruments, and transducers, administration and interpretation of the pure-tone testing, clinical masking, case history, otoscopy, and tuning-fork tests, speech audiometry; tests for pseudo-hypoacusis, ototoxicity, site-of-lesion testing and historical assessments; and informal assessment procedures.

AUD 641 Immit & Otoacous Emission Meas 3 cr
This course will address administration and interpretation of acoustic immittance and otoacoustic emission measures across the lifespan. Topics will address standard and multi-frequency tympanometry, acoustic reflex testing, and eustachian tube function testing; spontaneous, transient and distortion-product OAE measurement; and the influence of intrinsic and extrinsic variables, including cochlear and retro-cochlear pathology, on outcomes and differential diagnosis.
AUD 642  Pediatric Audiology  3 cr
This course will address issues associated with providing audiological services to pediatric and developmentally delayed populations. Issues will include gestational development, test administration and interpretation; genetic transmission of hearing loss, risk factors for hearing loss; principles of screening and the development and construction of a screening program; universal newborn hearing screening and early hearing detection and intervention programs.

AUD 643  Audiology and Aging  3 cr
This course will address the issues associated with providing audiological services to older adults. Issues will include effects of aging on anatomy, physiology, and function, and test administration and interpretation issues specific to older adults.

AUD 645  Evoked Potential Measures  3 cr
This course will address instrumentation (transducers and electrode types); application and interpretation of evoked potential (EP) measures including ENOG, ECochG, ABR, middle and late potentials, across the lifespan; sedation protocols; assessment protocols associated with different EP measures and the populations to which they are applied; population norms; intrinsic and extrinsic variables affecting EP results; differential diagnosis of auditory neuropathy; troubleshooting.

AUD 647  Adult Audio Rehabilitation  3 cr
This course will address the implications of hearing loss in adulthood including the educational, vocational, social and legislative concerns of adults with hearing loss; assessment tools and intervention techniques used to maximize communication skills, including communication strategy training, speechreading, and group therapy approaches.

AUD 648  Counseling Hear Imp-Families  3 cr
This course will address various theories, principles and techniques associated with the social and psychological aspects of disability as well as issues specific to and techniques used when counseling patients with hearing loss and their families.

AUD 649  Ped Habil & Educ Audiology  3 cr
This course will address the speech, language, and communication of children with hearing impairment. Manual and oral modes of communication will be discussed, including American Sign Language, Signing Essential English I and II, Cued Speech, Total Communication, and Auditory-Verbal Therapy. Other issues to be addressed will include the development, management, and utilization of hearing and middle ear system screening programs, classroom acoustics, selection and fitting of classroom-based amplification, and federal law associated with children with special needs. Taught Spring Semester.

AUD 651  Assess-Treatmnt Cent Aud Proc  3 cr
This course will address the development, assessment, and interpretation of an auditory processing test battery across the lifespan, as well as intervention approaches.

AUD 653  Industrial-Forensic Audiology  3 cr
This course will address federal noise standards, effects of noise exposure on the auditory system, sound measurement and instrumentation, development and implementation of a hearing conservation program, hearing protection devices and forensic audiology.

AUD 654  Tinnitus and Hyperacusis  3 cr
This course will address assessment and intervention approaches used in the management of tinnitus and hyperacusis.

AUD 655  Spch-Lang Path for Audiologist  3 cr
This interprofessional education (IPE) course will address the foundational knowledge and skills necessary for audiologists to work together with speech-language pathologists in interprofessional collaborative teams. Specifically, this course will address the scope of practice in audiology, speech-language screening, speech-language report literacy and special topics.

AUD 656  Vestibular Assessment  4 cr
This course will include a discussion of the peripheral and central anatomy and physiology of the balance system and the test measures used to assess the function of this complex system. Topics will include case history and screening measures, as well as test protocols and analysis of results on electronystagmography/videoelectronystagmography, rotational testing, posturography, and vestibular evoked myogenic potentials. Taught Spring Semester.

AUD 657  Management of Vestibular Disor  2 cr
This course will focus on peripheral and central disorders of the vestibular system and the interpretation of results on diagnostic tests in disordered patients. Pharmacological and surgical treatments of dizziness will be discussed, as well as rehabilitative techniques to manage the vestibular pathology.

AUD 658  Advanced Neurophys Measures  3 cr
This course will address advanced electrophysiological techniques, including ENOG, ALR, ERPs (i.e. P300, etc), and neuroimaging techniques (fMRI and PET) with an emphasis on auditory and cognitive processing, across the lifespan; source localization techniques; instrumentation; stimulus and acquisition parameters; measurement procedures; analysis and interpretation.

AUD 661  Developmnt-Managemnt Aud Prac  3 cr
This course will address issues associated with audiology practice management including techniques involved in developing a mission statement and a business plan; working with an accountant; determining type, location, and name of practice; regulation, licensure, and hiring a legal advisor; equipment and service delivery decisions; establishing accounts with suppliers, paying bills and budgeting; third-party reimbursement, Medicaid, and Medicare; hiring and supervision; demographics and marketing; use of outcome data; and professional writing.
AUD 674 Special Projects in Audiology 3 cr
Student will be required to develop a variety of projects
during their academic training, some of which will be further
developed and completed during this course.

AUD 675 Special Topics in Audiology 1 cr
Student will identify cases or service delivery issues of
clinical or professional interest and present these cases or
issues to fellow students, clinical supervisors, and faculty via
chat room in a grand rounds format.

AUD 680 Clinical Methods in Audiology 1 TO 3 cr
Students will become familiar with and conduct basic
audiologic procedures with non-clinical populations by
completing various lab assignments. Students will also
observe clinical activities in the USA Speech & Hearing
Center.

AUD 681 Clinical Practicum I 1 TO 3 cr
Discussion of instrumentation, procedures, and approaches
to assessment and intervention in audiology.
Co-requisite: AUD 681L

AUD 682 Clinical Practicum II 1 TO 3 cr
Discussion of instrumentation, procedures, and approaches
to assessment and intervention in audiology.
Co-requisite: AUD 682L

AUD 683 Clinical Practicum III 1 TO 3 cr
Discussion of instrumentation, procedures, and approaches
to assessment and intervention in audiology.
Co-requisite: AUD 683L

AUD 684 Clin Externship in Audiology 1 TO 12 cr
Off-campus opportunity to obtain clinical experience in
a full-time setting. In addition, student may be required
to identify cases or service delivery issues of clinical or
professional interest and present these cases or issues
to fellow students, clinical supervisors, and faculty via an
online forum in a grand rounds format.

AUD 699 Thesis 1 TO 3 cr
Under the advice and guidance of a faculty member,
students will identify and complete a research project
relevant to the field of Audiology. Requires approval of the
Department Chair.

Communication Scs Disord (CSD) (CSD)

CSD 600 Doctoral Colloquium 1 cr
This seminar is designed to provide a forum for presentation
and discussion of faculty and doctoral student research
projects. Topics may also include: teaching and learning
styles and grant writing. Must be repeated until candidacy is
achieved.

CSD 650 Research Methods in CSD 3 cr
Current methods and strategies used in research of
communication processes.

CSD 651 Speech and Hearing Sci & Inst 3 cr
Advanced review of the process of speech production,
acoustic phonetics, coarticulation, and speech perception
with emphasis on laboratory research methods.

CSD 662 Studies in Speech Science 3 cr
Basic and advanced principles of the acoustics and
physiology of speech production.

CSD 663 Studies in Hearing Science 3 cr
Advanced study of psychological and physiological
acoustics.

CSD 664 Studies in Language Science 3 cr
Intensive study of the theoretical foundations
underlying syntax, semantics, pragmatics, phonology,
psycholinguistics, neurolinguistics, sociolinguistics, and
applied pragmatics.

CSD 665 Studies in Commun Neuroscience 3 cr
Advanced study of neurosciences as they relate to
processes and pathologies of human communication,
including functional neuroanatomy and clinical neurology.
Interdisciplinary research paradigms will also be discussed.

CSD 672 Laboratory in Speech Science 1 cr
Laboratory experiences in speech science.

CSD 673 Laboratory in Hearing Science 1 cr
Laboratory experiences in hearing science.

CSD 674 Laboratory in Language Science 1 cr
Laboratory experiences in language science.

CSD 675 Lab in Commun Neuroscience 1 cr
Laboratory experiences in communication neuroscience.

CSD 682 Seminar in Speech Science 3 cr
Intensive review of current research in speech production.
May include normal and disordered processes. Topics
may include acoustic phonetics, physiological phonetics,
prosody, production and perception, fluency and voice. May
be repeated.

CSD 683 Seminar in Hearing Science 3 cr
Intensive literature review of current knowledge and
research in hearing and hearing disorders. Topics may
include cochlear mechanics, complex signal processing,
electrophysiological measures, development of hearing,
hearing in the elderly, and hearing in other species. May be
repeated.

CSD 684 Seminar in Language Science 3 cr
Intensive literature review of current methods, problems,
and strategies in language research. Topics may include
normal language acquisition, language-learning disorders,
clinical aphasiology, and neurolinguistics. May be repeated.
CSD 694  Directed Study -  1 TO 3 cr
Independent study under the direction of a graduate faculty member. May be repeated. Requires special permission.

CSD 695  Directed Research  1 TO 3 cr
Research under the direction of a graduate faculty member. May be repeated. Requires special permission.

CSD 696  Profess Pract - Administration  2 cr
Supervised professional experiences in administration under the guidance of faculty mentors. May be repeated.

CSD 697  Profess Pract-Clin Supervision  2 cr
Supervised professional experiences in clinical teaching under the guidance of faculty mentors. May be repeated.

CSD 698  Profess Practicum - Teaching  1 TO 5 cr
Supervised professional experiences in academic teaching under the guidance of faculty mentors. May be repeated.

CSD 699  Dissertation Research  1 TO 9 cr
Independent research under the direction of a graduate faculty member. May be repeated. Requires special permission.

Rehab Sci Speech Therapy (RST) (RST)

RST 521  Advanced Speech Science  3 cr
This survey course covers physical and acoustic properties of speech perception and speech production. Instrumental measurement and analysis of the physical and acoustic properties of speech perception and production will be addressed.

RST 535  Pediat Speech & Lang Disorders  3 cr
This survey course covers terminology, assessment and intervention for children from birth to age 21 years who present with spoken and written language disorders, including language impairment associated with other developmental disabilities, in particular, autism spectrum disorders. Additionally, one unit is speech therapy services for children and adults who present with fluency disorders/stuttering.

RST 540  Clinical Phonetics  2 cr
This course will study the dynamics of speech sound production, and provide the knowledge and skills for transcription and analysis of normal and disordered sound production.

RST 541  Ped Sp Sound Disorders  2 cr
Study of speech-sound production in children emphasizing disorders with organic (including cleft/resonance) and functional bases (i.e., phonological impairments) and childhood apraxia of speech. In addition to addressing the assessment and treatment of pediatric speech sound disorders, students acquire knowledge of speech perception, production, and typical acquisition for English speakers and crosslinguistically.

RST 551  Voice and Resonance Disorders  3 cr
This course focuses on the study of normal mechanisms, etiologies, pathologies, symptoms, diagnostic processes, and treatment methodologies associated with voice and resonance disorders across the lifespan.

RST 565  Neuromotor Disorders of Comm  3 cr
This course will address neuroanatomy and neurophysiology of structures responsible for speech production. Students will learn how to assess and manage motor speech disorders. This course counts toward the Rehabilitation Sciences in Speech-Language Pathology Master's degree but does not count toward the Master of Science in Speech-Language Pathology degree.

RST 566  Aphasia & Neuro Lang Disorders  3 cr
This course will provide the requisite knowledge for understanding, assessing, and treating language impairments associated with damage to the left or right hemisphere. Specifically, students will learn about the neural substrates for language: language assessment principles and procedures; and the nature and treatment of aphasia and right hemisphere disorders. This course counts toward the Rehabilitation Sciences in Speech-Language Pathology Master's degree but does not count toward the Master of Science in Speech-Language Pathology degree.

RST 567  Acq Cognitive Comm Disorders  2 cr
This course will provide the requisite knowledge for understanding, assessing, and treating cognitive-communication impairments in adults with acquired cognitive-communication disorders. Specifically, students will learn about the neural substrates for cognition; cognitive assessment principles and procedures; and the nature and treatment of disorders such as traumatic brain injury and dementia. This course counts toward the Rehabilitation Sciences in Speech-Language Pathology Master's degree but does not count toward the Master of Science in Speech-Language Pathology degree.

RST 568  Dysphagia  3 cr
This course will address healthy and disordered swallowing function across the lifespan. Students will learn anatomy and physiology of the swallow mechanism, how to assess swallowing function, and how to manage swallowing disorders. This course counts toward the Rehabilitation Sciences in Speech-Language Pathology Master's degree but does not count toward the Master of Science in Speech-Language Pathology degree.
**RST 580  Clinical Methods & Observation  1 TO 3 cr**
Introduction to the clinical setting for persons interested in working with individuals with communication impairments but who will not be seeking ASHA certification. Instrumentation, procedures and approaches to assessment and intervention will be discussed. General guidelines for developing goals and treatment plans will be assessed through written documentation submission. Observation of clients with communication and swallowing disorders, both in the clinical setting and online is a primary part of this course.

**RST 588  Audiology for Speech-Lang Path  3 cr**
This interprofessional education (IPE) course will address the foundational knowledge and skills necessary for members of interprofessional healthcare teams working with individuals with communication disorders. Scope of practice, screenings across the life span, referrals, report literacy, and co-management of services to children and adults with a variety of communication disorders will be discussed.

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**Speech Lang Pathology (SLP) (SLP)**

**SLP 596L  Clin Pract Sp-Lang Path Lab  1 TO 3 cr**
Supervised clinical experience in Speech-Language Pathology. May be repeated.

**SLP 510  Intro to Research Design  3 cr**
A general presentation of research procedures. The student will learn to read and evaluate professional literature and develop a research prospectus.

**SLP 521  Advanced Speech Science  3 cr**
The study of physical and acoustic concepts involved in speech production and perception including instrumental measurement and analysis.

**SLP 532  Clinical Linguistics  3 cr**
This course gives the student an overview of the linguistic theories and approaches that are relevant to the field of speech sciences. There will be a particular emphasis on those areas of linguistics that underpin the diagnostic and assessment procedures used in Speech Pathology. The course will focus on development and language use in normal populations and will show how knowledge of the pattern of typically developing language users can be applied to clinical contexts.

**SLP 533  Pediatric Language Disorders  3 cr**
Clinical assessment and management of language problems in infants, toddlers, and preschoolers, including language disorders associated with other developmental disorders and AAC.

**SLP 534  School-Aged Language Disorders  3 cr**
This course covers assessment and intervention approaches for school-age language disorders, children beyond age 5 years. Topics include speech-language services at the discourse level; the relationship between language and literacy; service delivery models including integration; educational laws and policies.

**SLP 541  Adv Articulation Disorders  3 cr**
Advanced study of disordered speech-sound production including these: development, assessment and intervention of articulation and phonological disorders in children.

**SLP 545  Assist Tech for Comm Disorders  2 cr**
Introduction to the study an application of assistive technology, including low-to-high tech augmentative and alternative communication devices to aid communication for persons with communication disorders. The course includes device characteristics, program features, and intervention strategies as well as current trends in research for individual with complex communication needs.

**SLP 551  Voice and Resonance Disorders  3 cr**

**SLP 561  Fluency Disorders  3 cr**
Study of theories, research, and contemporary treatment procedures in the area of fluency disorders.

**SLP 565  Neuromotor Disorders of Commun  3 cr**
Review of neuroanatomy and physiology, nature of neuromuscular pathologies, methods of assessment and rehabilitation of neuromotor disorders of speech production.

**SLP 566  Aphasia & Neuro Lang Disorders  3 cr**
Study of the nature, characteristics, and clinical management of acquired neurogenic language disorders associated with focal lesions to the left or right hemisphere, including aphasia and right hemisphere syndrome.

**SLP 567  Acq Cognitive Comm Disorders  3 cr**
Study of the nature, characteristics, and clinical management of cognitive-communication disorders associated with diffuse brain lesion, including traumatic brain injury and dementia.

**SLP 568  Dysphagia  4 cr**
This course provides an in-depth study of healthy and disordered swallowing function across the lifespan. Specifically, students will learn normal anatomy and physiological processes of the upper aerodigestive tract, how to conduct clinical and instrumental evaluations of swallowing function, and develop individualized, targeted treatment plans for various swallowing impairments.
SLP 588  Audiology for Speech-Lang Path  3 cr
This course will address the SLP scope of practice, audiological tests, amplification, report literacy, and special topics. An interprofessional team approach with audiology will address co-management of services in individual with communication disorders.

SLP 590  Dir Independent Research -  1 TO 3 cr
Independent research under the direction of a graduate faculty member. May be repeated. Requires permission of the instructor and the Graduate Advisor.

SLP 592  Seminar in Comm Disorders -  1 TO 10 cr
This course is designed to provide the opportunity for in-depth study of special interests. Requires permission of the Graduate Advisor.

SLP 594  Independent Study  1 TO 3 cr
Independent study under the direction of a graduate faculty member. May be repeated. Requires permission of instructor and Graduate Advisor.

SLP 596  Clin Pract Speech-Lang Pathol  1 TO 3 cr
Discussion of instrumentation, procedures, and approaches to assessment and intervention in speech-language pathology.
Co-requisite: SLP 596L

SLP 597  Off-Campus Clinical Practicum  1 TO 6 cr
Students will complete a 14-week, part time clinical practicum at an off-campus site.
Pre-requisite: SLP 596 Minimum Grade of B.

SLP 598  Clinical Externship  1 TO 12 cr
Supervised clinical experience in a professional service facility.

SLP 599  Thesis  1 TO 3 cr
One to three credits per semester with a maximum of three hours credit. Regular standing required. Requires permission of the Graduate Advisor.

Speech And Hearing Sci (SHS) (SHS)

SHS 201  Intro to Comm Disorders  3 cr
Overview of major disorders of human communication and the role of the Audiologist and Speech-Pathologist in assessing and treating them.

SHS 210  Culturally Responsive Practice  3 cr
This course presents a practical approach to systemic development of specific professional skills for providing effective, culturally sensitive clinical health services to ethnically and linguistically diverse patients. Building on standard models of multicultural competence that emphasize knowledge, awareness, and skills, students will be introduced to culturally humility, culturally specific approaches to practice, and frameworks for equity and empowerment.

SHS 302  Audiology and Hearing Sciences  3 cr
This course addresses basic principles of hearing science, including the physical properties of sound, sound generation, transmission, and measurement, anatomy and physiology of the hearing mechanisms; an introduction to the profession of audiology.

SHS 315  Fundamentals of Speech Science  3 cr
An introduction to the anatomy and physiology of speech production and the acoustic properties of speech.

SHS 331  Normal Language Acquisition-W  3 cr
Acquisition of communicative behavior in normal children during the first decade of life: development of syntax, semantics, pragmatics, cognition; clinical laboratory experience with children.
Pre-requisite: SHS 341 Minimum Grade of C.

SHS 341  Clinical Phonetics  4 cr
Transcription techniques for the analysis of speech. Includes a study of the dynamics of speech sound production.
Pre-requisite: SHS 201 Minimum Grade of C. SHS 201 can be taken concurrently with this course.

SHS 373  Audiology I  4 cr
This course is an introduction to the following topics-disorders of hearing, etiologies of auditory and vestibular disorders found in populations of all ages, and evaluation techniques used by audiologists.
Pre-requisite: SHS 302 Minimum Grade of C.

SHS 374  Audiology II  3 cr
This course is a study of the principles of the management of hearing loss in children and adults; relevant legislation; and treatment and education options.
Pre-requisite: SHS 373 Minimum Grade of C.

SHS 414  Neurobiol Bases Human Comm  3 cr
Introduction to neuroscience and clinical neurology as they apply to the processes of normal and disordered communication. Topics include neurophysiology, neuroanatomy, and neuropsychopathologies.
Pre-requisite: SHS 315 Minimum Grade of C and SHS 331 Minimum Grade of C and SHS 341 Minimum Grade of C.

SHS 431  Intro to Language Disorders  3 cr
A survey of language disorders in preschool and school-age children; assessment and intervention.
Pre-requisite: SHS 331 Minimum Grade of C.
SHS 453 Intro to Speech Disorders  3 cr
An introduction to disorders of articulation, voice, and fluency. Theoretical and etiological foundations will be surveyed as well as philosophical orientations to therapy. Pre-requisite: SHS 315 Minimum Grade of C and SHS 341 Minimum Grade of C.

SHS 480 Issues in Clinical Pract - W  3 cr
Introduction to the clinical setting; organizations and statutes that govern professional service; instrumentation, procedures and approaches to remediation. Observation of therapy and indirect participation as a clinical aide are also a major part of this course. Special permission is required from instructor to take course. Pre-requisite: SHS 331 Minimum Grade of C and SHS 341 Minimum Grade of C and SHS 373 Minimum Grade of C.

SHS 481 Intro to Clinical Practicum-W  4 cr
This is a clinical practicum course designed as an introduction to the clinical setting; documentation procedures and guidelines; organizations and statutes that govern professional service; instrumentation, procedures, and approaches to remediation. Written documentation observation of therapy (live and in-class video) and participation as a clinical aide are also significant course requirements. Pre-requisite: (SHS 302 Minimum Grade of B and SHS 315 Minimum Grade of B and SHS 331 Minimum Grade of B and SHS 341 Minimum Grade of B and SHS 373 Minimum Grade of B) and (EH 102 Minimum Grade of C or EH 105 Minimum Grade of C).

SHS 490 Special Topics -  1 TO 3 cr
Topics to be determined by student need and interest. Content will vary. A subtitle identifying the topic will be entered on the student's record. May be repeated for a total of 6 hours. Requires permission of the department chair.

SHS 494 Directed Independent Study  1 TO 3 cr
Independent study under the direction of a faculty member. Requires permission of the department chair.

SHS 499 Senior Honors Project - H - W  1 TO 6 cr
Under the advice and guidance of a faculty mentor, honors students will identify and carry out a research project relevant to the field of Speech Pathology and Audiology. The senior project will be judged and graded by three faculty members chaired by the honors mentor. This course is required for Honors recognition. Permission of the department chair and completion of an approved project prospectus is required.

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