6311 Introduction to Evidence-Based Practices and Instrumentation
An introduction to evidence-based clinical practices and audiological instrumentation. Preparatory for clinical practicum, as students learn to perform and interpret routine audiological procedures. Students are required to locate and apply modern research to typical clinical evaluations. Didactic lectures and hands-on laboratory experience are combined. Professional expectations, infection control, scope of practice, and ethics are discussed.

6312 Introduction to Hearing Aids
This course provides an introduction to amplification, acoustics, fitting principles, and related components. Direct practice in electroacoustic analyses of hearing aids, ear impressions, and hearing aid and ear mold modification and repair will be completed. Didactic lectures will be combined with hands-on experience to augment understanding of principles discussed.

6313 Acoustics and Psychoacoustics
The study of acoustics (physics of sound) and psychoacoustics (perception of sound) are covered. The aim of this course is an understanding of the comprehensive physical, physiological, and cognitive issues related to production of sound and listening. Principles and application of acoustics and psychoacoustics as they apply to clinical audiology and communication are provided.

6318 Cochlear Implants
Theoretical and applied principles in selection of and programming of multiple types of cochlear implants, candidacy evaluation and criteria, device considerations, and assessment of outcomes using evidence based outcome measure techniques. Mapping strategies (including hands-on clinical patient interactions), outcome measures, aural rehabilitation and speech and language learning in populations using implantable devices are discussed.

6319 Advanced Clinical Practicum
This graduate level practicum course is designed to provide graduate students with experience in assessment and management of children and adults with a variety of auditory, vestibular and related disorders. Students are assigned to on-campus and/or local off-campus clinical sites affiliated with the Department of Speech and Hearing Sciences to obtain needed experience. This course will be taken multiple semesters.

6321 Advanced Hearing Aids
This course is designed to build upon knowledge from SPHS 6312 (Introduction to Hearing Aids). It will further expand and augment skills for hearing aid and assistive device selection, programming, fitting, orientation, and verification for populations across the lifespan. Didactic lectures and direct lab experiences will be provided.
6322 Anatomy & Physiology of the Ear
A study of human anatomy and physiology with emphasis on the auditory and vestibular system. This course will cover the outer ear, middle ear, inner ear and the central auditory nervous system. The content will also focus on conductive, sensory and neurological bases of hearing loss and the balance system.

6326 Research Methods
This doctoral level course will introduce students to the origin and philosophies behind the qualitative and quantitative approach to empirical science. Specifically, the course will provide knowledge and skills on developing a quantitative research study considering the ethical aspects, choose and perform appropriate statistical test and draw appropriate conclusions considering the limitations of the study.

6331 Auditory Processing Disorders
This course offers investigation of the theory, diagnosis, and management of auditory processing disorders (APD). Evidence-based practices for APD across the lifespan will be evaluated and discussed. APD controversies will also be considered. Management and treatment techniques will be demonstrated and examined.

6342 Electrophysiology
This course will serve as an introduction to electrophysiologic measures used in the audiology clinic. Students will become familiar with the theories and basis of these measurement as well as clinical applications, protocols, and best practices. This course will cover Otoacoustic Emissions, Auditory Brainstem Response, Auditory Steady State Response, and Electrocochleography. Students will have opportunities to practice in laboratory settings.

6343 Pediatric Assessment and Genetics
This course focuses on the issues of audiological and balance evaluations for pediatrics. Topics include risks for hearing loss, genetic transmission and syndromes related to hearing loss. Embryology as well as normal and abnormal development of the auditory system will be included. The course will detail screening and comprehensive test administration and interpretation for children from infancy through adolescence.

6350 Research Seminar
Special study of a contemporary issue.

6352 Aural Rehabilitation
This course offers in-depth examination of the provision of aural rehabilitation across the lifespan. Didactic lectures and direct experiences are utilized to gain greater perspective into the therapy, treatment, and intervention processes of hearing rehabilitation. Elements of amplification, communication training, patient education, and counseling are discussed.

6354 Vestibular Assessment and Management
This course will cover anatomy, physiology and pathophysiology of the vestibular and related systems used for maintaining equilibrium and balance. Information on history, signs and symptoms, and self-perceived handicap to develop differential diagnosis will be discussed. It will go over the procedures used for diagnostic assessment of the vestibular system including informal evaluation, ENG/VNG, rotary chair, platform posturography, VHIT & VEMP.
6361 Medical Audiology
Study of hearing related pathologies and their influence on auditory/vestibular systems. Focus placed on etiology, signs and symptoms, and differential diagnosis of various pathologies. Also included, instruction and practicum for Cerumen Management.

6362 Pharmacology
This course identifies adverse drug reactions (ADR's) that can cause, mimic or exacerbate hearing loss and/or vestibular dysfunction. Issues also include ototoxic medications and their uses, effects and mode of action. This course will provide the information necessary to understand the effects of prescription and nonprescription medications on the auditory and balance systems.

6363 Differential Diagnosis
Analysis and integration of anecdotal, subjective and objective information to form a meaningful audiometric interpretation of hearing disorders with appropriate intervention strategies.

6371 Advanced Rehabilitation and Case Studies
This is a graduate level course on the principles and treatment practices for aural and vestibular rehabilitation. Covered material will include the potential impact of tinnitus and vestibular impairment with models and management approaches and critical appraisal of the evidence base available in supporting clinical decisions. It is intended to prepare students for additional clinical learning and supervised and independent assessment.

6372 Candidacy Proposal
Development and implementation of a research project through the proposal and IRB acceptance phase.

6373 Hearing Conservation
This course will cover the risks of hearing loss due to noise exposure in children and adults with an emphasis on hearing loss prevention, hearing loss education and intervention. Interpretation and role of the audiologist in the Occupational Safety and Health Administration (OSHA) Hearing Conservation Act on noise level assessment and abatement.

6381 Practice Management
This course addresses issues associated with audiology practice management. Students will be provided with the foundation necessary to initiate and manage a successful clinical practice. Individual management styles, selection and appraisal of office staff, marketing, budgeting and fiscal fitness will be discussed. Ethics and professional issues in various practice settings, including multicultural considerations, licensure, certification, etc are discussed.

6382 Analysis of Professional Literature
The aim of this course is to prepare students to become knowledgeable and skilled consumers of professional and academic literature by providing the means to evaluate the hypothesis, methodology results and conclusions drawn or inferred. The students will be introduced to evidence-based practice (EBP) in healthcare and they will review research and scholarly literature pertaining to hearing healthcare.

6383 Candidacy Paper Presentation
Continuation of SPHS 6372 culminating in a written and oral presentation of the finished research project to faculty and peers.
6639 Externship in Audiology
This course gives students hands on clinical experience in equipment use and patient interaction skills. A full-time well-rounded audiology externship setting will develop skills as an audiologist. The intent of the externship is to enhance students’ critical thinking, reasoning, and problem-solving skills in real-world clinical experiences. Must be taken more than one semester.