Course Descriptions

6319  Clinical Practicum
Clinical practicum focuses on diagnostics and therapy. This course will be taken multiple semesters.

6339  Full Time Externship
Practicum involving a full time placement in an external site after admission to candidacy. Must be taken more than one semester.

6311  Introduction to Graduate Studies in Audiology
Overview of audiologic principles and clinical procedures as they are applied to clinical practicum. Professional expectations and ethical practices are discussed.

6312  Advanced Hearing Aids I
Introduction to theories of amplification and fitting principles. Practice in electroacoustic analysis of hearing aids and earmold modifications.

6313  Acoustics
Study of the physics of sound as it applies to audiology. The theory and application of acoustics in various settings as applied to clinical audiology will be covered. The course will also focus on speech acoustics as applied to communication and will include certain areas of psychoacoustics.

6321  Hearing Aids II
Operation and selection criteria for programmable and digital amplification will be addressed. Practice in real ear measurements and assistive listening devices are provided.

6322  Anatomy & Physiology of the Auditory System
A study of human anatomy and physiology with emphasis on the anatomy and physiology of the auditory system from the peripheral sensory end-organ through the central auditory system in the cortex. The course will also cover neurological bases of hearing loss.

6331  Auditory Processing Disorders
Theory and diagnostic procedures used to evaluate children and adults who have symptoms associated with auditory processing disorders. Management and treatment techniques demonstrated and discussed.

6352  Aural Rehabilitation Lifespan
Theories, methods, and techniques in the management of hearing loss and subsequent communication difficulties in all age groups. Philosophy, methods, and techniques in the management of the young and school aged child with hearing loss. Audiologic issues related to amplification, development of communication skills, educational placement, classroom acoustics, and legal regulations will be discussed.
6318  **Cochlear Implants**
Candidacy, evaluation and referral process for cochlear implant patients will be introduced. Implant technology, hardware and software will be discussed with some hands-on laboratory experience with mapping.

5321  **Research in Communication Disorders**
Introduction to research design, data analysis, and report writing pertinent to basic science and behaviors in communication disorders.

6342  **Electrophysiology I**
Current electrophysiological assessment procedures, includes theory, instrumentation, techniques and procedures. Test result interpretation is discussed in relation to underlying anatomy and physiology.

6343  **Pediatric Assessment and Genetics**
This course focuses on normal and abnormal development of the auditory system and function, including embryology, genetic syndromes, hearing disorders and audiologic evaluation of children from infancy through adolescence.

6351  **Electrophysiology II**
Clinical assessment of vestibular disorders including, but not limited to: VNG/ENG, rotary chair, dynamic posturography.

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. General principles of pharmacology related to communicative functioning are included. Drug interactions and ototoxic conditions that lead to hearing loss are emphasized.

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

6371  **Electrophysiology III: Advanced Vestibular Diagnostics**
Analysis and integration of various vestibular diagnostic testing procedures to form a meaningful interpretation of vestibular disorders with appropriate intervention, referral, and recommendations.

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

6373  **Hearing Conservation**
Interpretation and role of the audiologist in the OSHA Hearing Conservation Act with emphasis on noise level assessment and abatement.

6381  **Practice Management**
Management principles, procedures and techniques for developing and maintaining an audiology practice and delivery of hearing health services. Legal and ethical issues in practice management, supervision and counseling are discussed.
6382  Professional Analysis of Literature
This course is specifically designed to teach the skills of critical analysis of professional literature. Students will learn to be critical consumers of research and to examine multiple published studies to determine the viability of the research method, the reliability of the results, and the applicability to the clinical setting. Students will also acquire the skill to examine multiple articles with disparate findings and to synthesize the whole of the extant literature into an applicable clinical practice.

6383  Candidacy Paper Presentation
Continuation (possibly) of SPHS 6317 culminating in a written and oral presentation of the finished research project to faculty and peers.

6350  Professional Seminar
Special topics in the field of Audiology include topics of current interest and guest presentation.