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## Course Descriptions

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The following courses are offered through the Department of Speech-Language Pathology and Audiology (SLA). A complete course listing for Bouvé College of Health Sciences is available in the Graduate Office. Courses listed here are subject to change. As new courses are offered and changes are made, an updated supplemental listing is available in the Graduate Office. Each College publishes graduate course offerings. If you want to take courses outside the SLA department and have the approval of your faculty adviser, please contact the applicable College for a listing of its course offerings and descriptions.

### Prerequisite Courses

#### **CAP G200** **Introduction to Counseling: Theory and Process** **in an Ecological Context** **3 SH**

Provides an overview of counseling and psychology from the ecological perspective. This course will cover the history, theories, and process of counseling across forces within psychology and across individuals (children and adults), groups, and families. An introduction to counseling skills is included.

#### **Educational Statistics** **3 SH**

#### **SLA G002** **Language Development** **3 SH**

In this introductory course, students will learn of the development of the language system from birth to adolescence. They will be able to compare different theories of language acquisition and understand their implications for intervention approaches; be familiar with broad developmental stages in infancy and childhood in the domains of motor skills, cognition, social skills, and speech and language and the connections among these domains; understand the social dynamics between parents and children, from which early gestures and pre-speech vocalizations emerge; be able to utilize some informal measures of language development covering form, content, and use; understand broad differences in development in multi-cultural populations including Asian, Hispanic, and African-American children.

#### **SLA G003** **Anatomy and Physiology of the Vocal Mechanism** **3 SH**

Offers an in-depth study of the static structure, musculature, and physiology of the speech mechanism. Emphasizes current research in speech physiology.

#### **SLA G004** **Phonetics** **3 SH**

Introduces students to (a) articulatory, perceptual, and linguistic aspects of speech sounds, and (b) phonetic transcription of normal and disordered speech using the International Phonetic Alphabet. Course Format: Lecture, discussion, laboratory exercises, and demonstrations, readings, audiotape exercises, problem sets, quizzes, and examinations.

#### **SLA G006** **Introduction to Audiology** **3 SH**

Offer the opportunity to gain knowledge of the physics of sound and the anatomy/physiology of the human hearing mechanism, and how these two areas are interrelated. Familiarizes students with some of the diagnostic tests performed by the audiologist in order to assess the integrity of the hearing mechanism. Concludes with a brief overview of amplification and the rehabilitation process for hearing-impaired persons.

#### **SLA G007** **Speech and Hearing Science** **3 SH**

Introduces facts and theories related to the physical bases of sound as relevant to speech acoustics; anatomy of the hearing mechanisms; psychoacoustics; and speech perception. While primarily concerned with normal communication, the course also includes discussion of communication disorders. Lab-demos and problem sets augment lectures and discussion.

#### **SLA G008** **Introduction to Early Intervention** **4 SH**

This course will introduce students to the professional field of Early Intervention. They will learn the principles of early intervention, including roles of the family and the team formats in which services are provided, Massachusetts EI standards, and eligibility criteria. Using a case-based approach, with role-play, students will learn some aspects of the developmental approach to assessment and intervention. The course will be open to all students in Bouvé College of Health Sciences and will be taught by a number of faculty from different disciplines on the Early Intervention Team.

#### **SLA G100** **Diagnostic Audiometry** **3 SH**

Presents an in-depth examination of the various uses of pure tone, speech, and impedance measures as they relate to the standard audiological assessment. Covers case history and case reporting. *Coreq. SLA G208. Prereq. SLA G006.*

#### **SLA G101** **Electrophysiology** **1 SH**

Focuses on the interaction of measuring equipment and specific body responses to auditory stimulation. The acoustic and non-acoustic reflex, the otoacoustic emission, and the evoked auditory potential will be explored in detail.

#### **SLA G102** **Anatomy and Physiology of the Ear** **2 SH**

Details anatomy, physiology, and neurology of the outer, middle, and inner ear, as well as structure and function of the eighth cranial nerve.

#### **SLA G103** **Language Disorders in Children for Non-SLP Majors** **3 SH**

Emphasizes current theories of language behavior and their practical application to the assessment and remediation of language disturbances in children. Uses lectures, discussions, and case presentations to focus on what constitutes a language problem, what assessment tools and therapeutic techniques are currently available, and what underlying principles are involved in selecting and organizing the content of a remediation program.

#### **SLA G104** **Differential Diagnosis in Audiology** **3 SH**

Examines in detail the site of lesion test battery approach to differential diagnosis in audiology. Includes consideration of Bekesy, ENG, SISI, tone decay tests, ABLB, acoustic reflex, and auditory evoked potentials (ABR).

#### **SLA G105** **Auditory Pathologies** **3 SH**

Provides an overview of temporal bone and eighth nerve anatomy. Discusses physiology of the auditory system. Covers the more frequently encountered pathologies affecting the auditory system as well as medical/surgical treatment of those disorders. *Prereq. SLA G100.*

**SLA G106**  
**Amplification** **4 SH**  
Explores physical characteristics of hearing aids and their performance. Offers theoretical approaches to selection and fitting of hearing aids, and analysis of hearing aid dispensing systems.

**SLA G107**  
**Clinical Procedures** **3 SH**  
Reviews principles and procedures of the functional analysis of behavior and focuses on the application of behavioral theory and research to speech, language, and hearing training. Emphasizes clinical investigation in the experimental analysis of the behavior of communication disorders and experiences in the application of experimental procedures in assessment and treatment programs.

**SLA G108**  
**Rehabilitation Audiology** **3 SH**  
Provides information about the effects of hearing loss on communication, the role of the audiologist in the rehabilitation process, approaches to counseling, uses of amplification, and issues in industrial and educational hearing conservation.

**SLA G109**  
**Neurology of Communication** **3 SH**  
This course provides students with the opportunity to acquire a basic understanding of human neuroanatomy and neurophysiology as related to normal aspects of speech, hearing, and language. Central and peripheral nervous system anatomy and physiology are reviewed developmentally from embryologic through the life span perspectives. Neurology of common speech-language pathologies are similarly addressed.

**SLA G208**  
**Pediatric Audiology** **2 SH**  
Familiarizes students with embryological development of the auditory system, structural lesions of the auditory system, categories of genetic and metabolic deafness, syndromes associated with deafness, contemporary neonatal screening, audiological assessment of the pediatric patient, test interpretation, and audiological counseling. *Coreq. SLA G100.*

**SLA G209**  
**Psychoacoustics** **2 SH**  
Explores the relationship between acoustic stimuli and psychological responses to sounds. Stresses the similarities and differences between the perception of normal hearing and among different types of impaired hearing. Topics include a general review of the physics of sound, detection, discrimination, masking, binaural hearing, and speech perception.

**SLA G210**  
**Psychosocial Aspects of Communication Disorders** **2 SH**  
Covers the psychological, educational, and social aspects of communication disorders, particularly auditory impairment.

**SLA G211**  
**Research and Evidenced-Based Practice** **3 SH**  
Prepares students primarily as consumers of clinically relevant research in the field of communication disorders, using principles of evidence-based practice. While consumers utilize research information in some shape or form in their daily practice, producers engage in the conduct of original or replicated research. As consumers, for example, clinicians may consult research studies to determine suitable treatments for their clients. As producers, clinicians may document a treatment via the case study method or single-subject experimental research. Even though the role of clinicians as research

producer will be addressed as well, the emphasis will be on the role of using research to guide practice. Consumers and producers of research information should be concerned with internal and external validity of research.

**SLA G212**  
**Seminar in Hearing Science** **2 SH**  
Offers individual research and/or critical review of the literature in the area of bone conduction of auditory signals, evoked response and audiometry, impedance, and audiometry, cortical processing of auditory input, and other related topics. Requires students to be responsible for class presentations of researched material.

**SLA G213**  
**Pediatric Aural Rehabilitation** **2 SH**  
Focuses on various approaches to rehabilitation for deafness in children. Intervention philosophy, style, and practice will be analyzed in an effort to understand the rationale of a particular approach to rehabilitation. Among the various approaches will be cochlear implant, American Sign Language, and total communication.

**SLA G214**  
**Noise and Hearing** **2 SH**  
Covers such topics as different types of potentially hazardous sounds (e.g., sound-level measurement and sources: personal stereos, recreational noises, industrial noises, etc.), how noise alters hearing, national regulations and reporting of noise levels, how to prevent noise-induced hearing loss, and how to educate and motivate people of different ages to prevent noise-induced hearing loss.

**SLA G215**  
**Professional Practice** **2 SH**  
Provides contemporary information relative to the practice of audiology and speech-language pathology. Includes such topics as planning a business practice, establishing a successful business operation, securing third-party reimbursement, and providing services within state licensing and ASHA ethical guidelines.

**SLA G216**  
**Physiological Acoustics** **2 SH**  
Emphasizes the biophysics of the hearing mechanism, especially in terms of actual clinical utility. Stresses comparative anatomy and physiological analysis.

**SLA G219**  
**Aural Rehabilitation** **3 SH**  
Provides a detailed examination of various approaches to speech reading and auditory training as they apply to children and adults. Offers an integrated approach to management of hearing-impaired individuals. *Prereq. Undergraduate course in audiology.*

**SLA G301**  
**Speech Science** **3 SH**  
Focuses on normative aspects of speech acoustics, speech production, and speech perception, but will also include exploration of disordered speech and remediation of speech disorders. Laboratory exercises and class projects may be used to augment class lectures and discussions. *Coreq. SLA G302. Prereq. SLA U105.*

**SLA G302**  
**Lab/Recitation for SLA G301** **1 SH**  
Provides small-group demonstrations and/or hands-on experience with laboratory equipment relevant to speech science as well as small-group discussion and recitation.

**SLA G303**  
**Stuttering** **3 SH**  
Provides students with the information base needed to work with individuals of all ages who present with any type of fluency disorder. The focus is on theoretical background and assessment/treatment techniques for dysfluent individuals. Outcome and efficacy considerations are emphasized.

**SLA G304**  
**Augmentative and Alternative Communication** **3 SH**  
Provides an overview of augmentative and alternative communication (AAC) approaches for individuals with severe communication impairments. It is expected that students will gain the foundation knowledge and skills for further independent study, continuing education, further course work, and practicum experience. For student who will seek additional study or experience in AAC, the course should provide an enabling foundation for providing direct services in AAC or to serve as a consultant to meet the needs of individuals with severe communication impairments. For those who will not seek additional study in AAC, the course should provide the basic knowledge for appropriate referral and collaboration.

**SLA G305**  
**Articulation and Phonology** **3 SH**  
Familiarizes students with theoretical, empirical, and practical views of the etiology, assessment and treatment of disorders of the speech sound system. The primary focus is on disorders that are developmental in nature (as opposed to emerging after normal speech sound development has occurred). The course includes a review of articulatory phonetics, discussion of relevant linguistic principles, and study of theory and data relevant to the course of normal speech sound system development. *Prereq.* SLA U100.

**SLA G306**  
**Speech-Language Disorders in Children** **3 SH**  
Covers a variety of common speech and language disorders in children with both biological and environmental foundations. Students will learn of models of speech and language processing, definitions of disorders in relation to those models, and a range of intervention methodologies. Students will consider issues of bilingualism and bi-dialectism and how they impact speech and language learning and academic success. Finally, students will consider the implications of these disorders for academic achievement, particularly reading and writing. The course will be taught using a case-based approach. A portion of the credit for the course will be earned through Web-based learning.

**SLA G307**  
**Voice Disorders** **3 SH**  
Voice disorders are prevalent across the life span in both professional and lay voice users. Evaluation and treatment of organic and/or functional vocal pathologies are key focuses of speech-language pathologists across clinical settings (educational and medical). This course provides students with the information base needed to work with these interesting and rewarding populations. Emphasis is placed on anatomy and physiology of normal and impaired voice production, instrumental and non-instrumental assessment, and treatment techniques for remediation. Prevention, outcome, and efficacy considerations are emphasized. *Prereq.* SLA U102.

**SLA G308**  
**Dysphagia** **3 SH**  
Evaluation and treatment of swallowing disorders are key focuses of the speech-language pathologies in most clinical work settings (educational and medical), with individuals of all ages. This course provides students with the information base needed to work with these challenging and rewarding populations. The focus is on theoretical background and assessment/treatment techniques for dysphagia individuals. Outcome and efficacy considerations are emphasized.

**SLA G309**  
**Speech-Language Disorders in Adults** **3 SH**  
Speech, language, and cognitive-linguistic disorders are typical consequences of acquired central and peripheral nervous system adult impairments. This course provides students with the foundation needed to work with frequently referred adult-impaired populations across clinical settings. Emphasis is placed on the anatomy/etiology/neurology/physiology of commonly acquired adult communication disorders (including aphasia, apraxia, dementia, dysarthria, and traumatic brain injury), characteristics of these communication disorders, and intervention approaches (diagnostic & therapeutic). Prevention, outcome, efficacy, and service-delivery considerations are addressed. *Prereq.* SLA G100.

**SLA G311**  
**Counseling in SLP** **3 SH**  
Provides students with a theoretical framework from which specific counseling strategies may be implemented for individuals and their families with various communication disorders. Conversational interactive strategies will be stressed.

**SLA G312**  
**Audiology for Speech-Language Pathologists** **3 SH**  
Provides speech-language pathology majors a review of standard procedures and an update of contemporary issues in audiology. Focuses on pathological disruption of the auditory system and on assessment. Covers case history and case reporting.

**SLA G314**  
**Professional Practice 1** **2 SH**  
Provides contemporary information relative to the practice of audiology and speech-language pathology. Includes such topics as planning a business practice, establishing a successful business operation, securing third-party reimbursement, and providing services within state licensing and ASHA ethical guidelines.

**SLA G315**  
**Professional Practice 2** **3 SH**  
Provides contemporary information relative to the practice of audiology and speech-language pathology. Includes such topics as planning a business practice, establishing a successful business operation, securing third-party reimbursement, and providing services within state licensing and ASHA ethical guidelines.

**SLA G316**  
**Assistive Technology** **2 SH**  
This three credit elective course will provide students with an understanding of the use of technology to improve the lives of people with communication disabilities. Students will develop an understanding of the principles underlying human activity assistance technology from the perspective of both users and professionals. The course will include demonstrations of technology and hands-on training in the use of computer software. Students will be introduced to both traditional and computer-based technology.

**SLA G317**  
**Socio-Linguistics** **3 SH**  
Consists of basic sociolinguistic concepts, including dialectal variations and other forms of language variation, attitudes toward language use and the speech community; language needs of multi-cultural children in educational settings, considering cultural attitudes of teachers and types of learning situations available; and social and cultural diversity and its effects on the individual's communicative competence. Includes methods of sociolinguistic research; bilingual language development; language in the classroom; sociolinguistic effects on reading, writing, oral language, and role relationships.

**SLA G318**  
**SLP in the Schools** **3 SH**  
Prepares students for a potential career as a speech-language pathologist (SLP) in the public schools. The regular education classroom has been recognized as the least restrictive environment (LRE) for most children. Many schools are now providing a variety of special education services within the classroom using specialized learning techniques infused with curricular content. This has challenged the manner in which SLPs plan and deliver services to children with communication impairments. Many experienced SLPs have long acknowledged frustrations inherent in traditional speech-language intervention which is exemplified by goals and services only marginally related to classroom demands and fragmented objects in the Individualized Education Plan. This course is aimed at helping students to avoid becoming a "broom-closet therapist" (Simon, 1987) and developing into a classroom-based communication specialist; a role supported by recent laws and legislation.

**SLA G319**  
**SLP in the Medical Settings** **3 SH**  
Prepares students for a potential career as a speech-language pathologist (SLP) in a medical setting working with patients across the life span. Topics include: scope of practice, the team approach, third party coverage/reimbursement, ethics, health care reform, assessment of outcomes, documentation, care for the caregiver, and service delivery across the continuum of care. Service delivery issues and concerns relevant to the following types of medical settings are addressed: acute care, acute rehabilitation, early intervention, chronic care, and home care.

**SLA G321**  
**Motor Speech Disorders** **3 SH**  
Many of the neurologically impaired children and adults that Speech-Language Pathologists (SLP) work with present with motor speech disorders. This course focuses on the neurology, SLP evaluation, and SLP treatment of individuals presenting with any type/types of anarthria/dysarthria and apraxia/dyspraxia of speech. Diagnostically, students learn how to complete oral motor examinations (including an assessment of those cranial nerves involved in respiration, phonation, resonance, and articulation) and intelligibility testing. Therapeutically, students are exposed to a variety of therapy approaches for the range of motor speech disorders based on severity of impairment and prognosis for recovery/improvement, including verbal, non-verbal, prosthetic, and pharmacologic.

**SLA G322**  
**Language Literacy** **3 SH**  
Focuses on the development of language and literacy skills through storybook reading, the use of predictable and repetitive text, logical sequencing, and the provision of multiple opportunities to gain oral control over the language in texts. Students will learn how to give children the opportunity to generalize use of storybook language in meaningful communication. Techniques to expand and develop a child's language are also explored.

**SLA G323**  
**Dialects, Bilingualism and Accent Modification** **3 SH**  
With the increase in globalization and immigration trends in this country, there is a need for clinicians and researchers to be aware of the interactions between dialectal speech and disordered speech. This course introduces students to current research into inter-language phonology considering both perception and production. A focus will be the major language groups of the world. Students will also learn a variety of approaches to accent modification, including the use of computer-assisted and Web-based approaches. The course is practice oriented and introduces students to major issues of intelligibility and naturalness in minority populations. Elective course to be offered every two years.

**SLA G324**  
**Workshop in Speech Pathology and Audiology** **3 SH**  
Offers workshops in a specific field of interest from time to time. These may include topical issues or new information in either theory or practice.

**SLA G326**  
**Genetic Communication Disorders** **3 SH**  
No single scientific discipline has had more impact on the understanding of diseases and disorders in humans than genetics. This course is an introduction to the basics of both clinical and molecular genetics. It will describe the basics of heredity, how genes work and are expressed in people, how to gather information that might reveal a genetic basis for a communicative impairment, and the importance of understanding that basis. Additionally, syndromes which have a communication component, the diagnostic process and syndromic implications for treatment will be discussed.

**SLA G327**  
**Topics in Professional Practice** **2 SH**  
Identifies current issues in the fields of speech-language pathology and audiology relative to ethics, service delivery systems, acceptable standards of clinical practice, and emerging trends in diagnostics and treatment. Critical thinking and problem-solving abilities will be utilized to analyze clinical and professional dilemmas.

**SLA G328**  
**Seminar in Audiology** **2 SH**  
Offers advanced study of the development of principles and theories associated with modern procedures and methods used in audiology.

**SLA G331**  
**Seminar in Communication Disorders** **1 SH**  
Explores in-depth issues in communication disorders relating to current aspects of clinical management. May include a variety of specific topics.

**SLA G332**  
**Seminar in Communication Disorders** **2 SH**  
Allows for the advanced study of current diagnostic and intervention strategies, applications of theoretical and applied research, and exploration of current topics in speech-language pathology. Topics may range from the treatment of underserved populations to the analysis of complex clinical cases requiring interdisciplinary management.

**SLA G333**  
**Seminar in Communication Disorders** **3 SH**  
Allows for the advanced study of current diagnostic and intervention strategies, applications of theoretical and applied research, and exploration of current topics in speech-language pathology. Topics may range from the treatment of underserved populations to the analysis of complex clinical cases requiring interdisciplinary management.

**SLA G334**  
**Seminar in Communication Disorders** **4 SH**  
Allows for the advanced study of current diagnostic and intervention strategies, applications of theoretical and applied research, and exploration of current topics in speech-language pathology. Topics may range from the treatment of underserved populations to the analysis of complex clinical cases requiring interdisciplinary management.

**SLA G335**  
**Early Intervention Assessment Intervention** **3 SH**  
Students will learn of the assessment models, and the multi-domain tests used in early intervention. They will become familiar with informal and formal instruments used in different areas including cognition, speech and language, motor, and social/emotional domains. They will understand the process and responsibilities for the writing of Individualized Family Plans (IFSPs) as well as a variety of intervention models, methods, and strategies to be implemented in natural environments. The course will be team taught by professors drawn from Special Education, Speech-Language Pathology, Counseling Psychology, Nursing, and Physical Therapy. Students will participate in Northeastern's Global Early Intervention Network. Partial credit for this course will be earned through Web-based learning.

**SLA G409**  
**Audiology Clinic Seminar** **1 SH**  
Offers advanced study of the development of principles and theories associated with modern procedures and methods used in audiology.

**SLA G410**  
**Advanced Clinical Practice 1** **3 SH**  
Offers a supervised Clinical experience in audiology designed for beginning graduate students. Included practicum sites at the Northeastern University Hearing Language and Speech Center, satellite clinics, and/or educational settings. Requires student to be available a minimum of 20 hours per week during the academic year. Requires attendance at on-campus seminar meetings held weekly. *Prereq. Permission of department and GPA of 3.0 or better.*

**SLA G411**  
**Advanced Clinical Practice 2** **3 SH**  
Offers a two-quarter sequence of supervised clinical experience in audiology at the Northeastern University Hearing Language and Speech Center, medical settings, educational settings and rehabilitation centers. Uses practical experience to emphasize advanced diagnostic and management techniques, stressing the application of theory to practice. Requires student to available a minimum of 20 hours per week during the academic year. *Prereq. Permission of department and GPA of 3.0 or better in G410.*

**SLA G412**  
**Advanced Clinical Practice 3** **3 SH**  
Offers a two-quarter sequence of supervised clinical experience in speech-language pathology and audiology for advanced graduate students. Uses practical experience to emphasize problem-solving techniques relevant to case management. Requires student to be available a minimum of 20 hours per week during the academic year. *Prereq. Permission of department and minimum GPA of 3.0 in G411.*

**SLA G413**  
**Advanced Clinical Practice 4** **3 SH**  
Offers a two-quarter sequence of supervised clinical experience in speech-language pathology and audiology for advanced graduate students. Uses practical experience to emphasize problem-solving techniques relevant to case management. Requires student to be available a minimum of 20 hours per week during the academic year. *Prereq. Permission of department and minimum GPA of 3.0 in G411 and G412.*

**SLA G414**  
**SLP Clinic Seminar** **1 SH**  
Provides feedback and reflection on the clinical experience as students begin their entry into clinical practice on an individual and small-group basis. *Prereq. Students must have successfully completed a course in clinical procedures prior to enrolling.*

**SLA G415**  
**SLP Clinic 1** **3 SH**  
This course offers supervised clinical experience in speech pathology for beginning graduate students. Includes practicum sites at the Northeastern University on-campus clinical site, satellite clinics, and/or educational settings. Requires student to be available a minimum of 20 hours per week during the academic year. Requires attendance at on-campus seminar meetings held weekly. *Prereq. Students must have successfully completed a course in clinical procedures prior to enrolling.*

**SLA G416**  
**SLP Clinic 2** **3 SH**  
Supervised clinical experience in speech pathology at the Northeastern University Hearing, Language, and Speech Center, medical settings, educational settings and rehabilitation centers. Uses practical experience to emphasize advanced diagnostic and management techniques, stressing the application of theory to practice. Requires student to be available a minimum of 20 hours per week during the academic year.

**SLA G417**  
**SLP Clinic 3** **3 SH**  
Supervised clinical experience in speech/language pathology for advanced graduate students, placing them in settings such as the Northeastern University Speech, Language, and Hearing Center, medical settings, educational settings, and rehabilitation centers. It uses practical experience to emphasize problem-solving techniques relevant to case management and to continue to integrate theory and practice. Students are required to be available a minimum of 20 hours per week during the academic year.

**SLA G418**  
**SLP Clinic 4** **3 SH**  
Supervised clinical experience in Speech Language Management pathology for advanced graduate students, placing them in settings such as the Northeastern University Speech, Language, and Hearing Center, medical settings, educational settings, and rehabilitation centers. It uses practical experience to emphasize problem-solving techniques relevant to case management and to continue to integrate theory and practice.

**SLA G419**  
**Audiology Clinic for Speech-Language Pathologists** **1 SH**  
Provides the SLP students with hands-on experience as well as general theoretical background to basic hearing testing, hearing aid fitting, and management.

**SLA G420**  
**Thesis Option 1** **3 SH**  
Offers a research activity that may be selected by the student in lieu of a course with the recommendation of the advisor. *Prereq. G211 Research and Evidence-Based Practice.*

**SLA G420**  
**Thesis Option 2** **3 SH**  
Offers a research activity that may be selected by the student in lieu of two courses with the recommendation of the advisor. *Prereq. G211 Research and Evidence-Based Practice.*

**SLA G430**  
**Directed Study 1** **1 SH**  
Provides support for the student whose unique needs or interests cannot be adequately satisfied in any of the scheduled courses of the department. *Prereq. Approval of the department chair and graduate school director. Approval forms must be submitted during the quarter prior to registration of directed student.*

**SLA G431**  
**Directed Study 2** **2 SH**  
Provides support for the student whose unique needs or interests cannot be adequately satisfied in any of the scheduled courses of the department. *Prereq. Approval of the department chair and graduate school director. Approval forms must be submitted during the quarter prior to registration of directed student.*

**SLA G432**  
**Directed Study 3** **3 SH**  
Provides support for the student whose unique needs or interests cannot be adequately satisfied in any of the scheduled courses of the department. *Prereq. Approval of the department chair and graduate school director. Approval forms must be submitted during the quarter prior to registration of directed student.*

**SLA G433**  
**Directed Study 4** **4 SH**  
Provides support for the student whose unique needs or interests cannot be adequately satisfied in any of the scheduled courses of the department. *Prereq. Approval of the department chair and graduate school director. Approval forms must be submitted during the quarter prior to registration of directed student.*

**SLA G434**  
**Directed Study** **4 SH**  
Allows students to pursue topics of individual interest beyond the scope of formal course work under the direction of faculty. *Prereq. Permission of instructor.*

**SLA G460**  
**Seminar in Audiology** **2 SH**  
Offers Advanced study of the development of principles and theories associated with modern procedures and methods used in audiology. *Prereq: Permission of instructor.*

**SLA G465**  
**Clinic Seminar** **1 SH**

**SLA G691**  
**Thesis 1** **3 SH**  
Offers a research activity that is the first of a two-course thesis sequence with the recommendation of the advisor. *Prereq. SLA G211.*

**SLA G692**  
**Thesis 2** **3 SH**  
Offers a research activity that is the second of a two-course thesis sequence with the recommendation of the advisor. *Prereq. SLA G691.*

**SLA G706**  
**Instrumentation** **3 SH**  
The basics of signal generation and control will be described and illustrated. Decibel notation and SPL, HTL, peSPL, and nHL will be covered. Types of signals used in auditory measures will be described in detail as will be the methods used to calibrate those signals. Signal delivery transducers will be described and illustrated including circumaural and insert phones, bone conductors, and loudspeakers with their driver amplifiers.

**SLA G711**  
**Scope of Practice in Audiology** **2 SH**  
Using ASHA documents entitled "Scope of Practice in Audiology" the ASHA Code of Ethics, segments of FDA policy regarding audiological activities, and relevant legislation such as Massachusetts General Law, Chapter 93:71 and following, the practice of audiology will be described and defined within the contexts represented by the above. Students will examine the limits of regulated practice and identify examples of practice deemed to have exceeded the limits imposed by defining authorities.

**SLA G716**  
**Amplification 2** **3 SH**  
This course expands on G106 Amplification and examines state-of-the-art digital technology and contemporary software fitting systems. The use of computers to fit and validate hearing aids will be explored as well as computer approaches to document hearing aid efficiency. The limits of personally warm amplification will be examined and difficult-to-fit cases will be presented.

**SLA G721**  
**Evaluation and Treatment of Central Pathology** **3 SH**  
This course examines behavioral and electrophysiological assessment of central auditory dysfunction. Particular emphasis will be placed on the value of parent and teacher observation of child behavior and the role of neuropsychological evaluation will be described. Pharmacological treatment where appropriate will be discussed. Audiological intervention including the use of Fm signal processors and the use of auditory training with programs designed to facilitate auditory processing will be discussed and demonstrated. The role of the audiologist as CORE team specialist and parental advocate will be illustrated.

**SLA G726****Assessment and Treatment of Balance Disorders 2 SH**

This course will require students to become skilled in various assessment techniques associated with differential diagnosis of balance disorders. The course will illustrate the importance of case history and facilitate student skill acquisition in use of video electron stamography (VENG) for optokinetic, positional, and caloric assessment. Students will also have opportunities to learn the importance of rotational chair and acquire skill in its clinical application. The variety of medical/surgical treatment for control of balance disorders will be discussed and manipulation approaches appropriate for audiological care will be demonstrated.

**SLA G731****Audiology Research Project 3 SH**

This course will develop practical research skills through involvement in a research project. Students will be required to submit their finished project to a state or national organization for possible acceptance as a poster presentation. Research methods including data collection and analysis as well as writing skills will be emphasized.

**SLA G736****Advanced Evoked Potential Measures 2 SH**

This course will examine the latest applications of evoked potential measures including P300, MMN, the late cortical potentials, and brain mapping. Applications of these measures to clinical practice will be discussed.

**SLA G741****Pharmacology for Audiologists 2 SH**

This course will cover introductory information on pharmacological agents their actions, and adverse reactions. The use of drugs to treat auditory disease will be covered, and the specific process of ototoxic reaction will be analyzed. The use of drugs to treat tinnitus will be examined.

**SLA G746****Implantable Hearing Devices 2 SH**

This course will examine cochlear implant candidacy, surgery, follow-up, and long-term training and education-issues relevant to children. Device mapping will be demonstrated. In addition, middle ear implants, and bone anchored hearing aids (BAHA) will be discussed in detail and analyzed with regard to their performance, cost, and efficiency.

**SLA G761****Advanced Audiology Clinic 1 1.5 SH**

The purpose of this course is to introduce students to clinical process. They will have opportunities to learn how to observe client behavior, how to write clinical reports, and how to recommend specific audiological treatment. This experience offers a supervised clinical experience in audiology designed for beginning graduate students. Includes practicum sites at Northeastern University Speech-Language and Hearing Center, area clinics or hospitals, and or educational settings. Requires student be available a minimum of 1–2 days per week during the academic year.

**SLA G762****Advanced Audiology Clinic 2 1.5 SH**

Students will have the opportunity to expand on clinical skills that were introduced in Clinic 1. Focus will be on obtaining a basic case history, test procedures and skills, as well as providing results and recommendations to patients. This experience offers a supervised clinical experience in audiology designed for beginning graduate students. Includes practicum sites at Northeastern University Speech-Language and Hearing Center, area clinics or hospitals, and or educational settings. Requires student be available a minimum of 1–2 days per week during the academic year.

**SLA G763****Advanced Audiology Clinic 3 1.5 SH**

This intermediate level of clinical training will expand on knowledge and skills acquired in Clinics 1 and 2 and further develop student self-assessment skills. Uses practical experiences to emphasize problem-solving techniques relevant to case management. Includes practicum sites at Northeastern University Speech-Language and Hearing Center, area clinics or hospitals, and or educational settings. Requires student be available a minimum of 1–2 days per week during the academic year.

**SLA G764****Advanced Audiology Clinic 4 1.5 SH**

This course will provide practical experiences to emphasize problem-solving techniques relevant to case management and to continue to integrate theory and practice. Greater independence in case management and follow-up will be fostered. Includes practicum sites at Northeastern University Speech-Language and Hearing Center, area clinics or hospitals, and or educational settings. Requires student be available a minimum of 1–2 days per week during the academic year.

**SLA G765****Advanced Audiology Clinic 5 1.5 SH**

This advanced level of clinical training will provide practical experiences to assist student in acquiring clinical skills and knowledge necessary to prepare them for the clinic internship. Will focus on student self-assessment skills as well as independent thinking and problem solving. Includes practicum sites at Northeastern University Speech-Language and Hearing Center, area clinics or hospitals, and/or educational settings. Requires student be available a minimum of 1–2 days per week during the academic year.

**SLA G766****Advanced Audiology Clinic 6 1.5 SH**

This advanced level of clinical training will provide practical experiences to assist student in acquiring clinical skills and knowledge necessary to prepare them for the clinic internship. Will focus on assisting students in assigning priorities to clinical goals and objectives as well as independent thinking and problem-solving. Includes practicum sites at Northeastern University Speech-Language and Hearing Center, area clinics or hospitals, and/or educational settings. Formative assessment of emergent skills will be performed as well as summative assessment of the complete clinician. Requires student be available a minimum of 1–2 days per week during the academic year.

**SLA G773****Topic Seminar 3 SH**

This course will provide a forum for students examine contemporary issues in audiology and they relate to patient services and audiologist expertise. Students will be required to extract from contemporary audiological literature a multitude of topics that reflect the current state of audiology. The instructor will function as a moderator/facilitator.

**SLA G791****Audiology Clinic Internship 1 3 SH**

First of three segments which provides students with a full-time clinical experience in a variety of off-campus settings including hospitals, clinics, private audiologic practices, rehabilitation centers, and educational settings. Direct supervision is provided by off-campus, licensed audiologists who are in contact with University faculty.

**SLA G792**  
**Audiology Clinic Internship 2** **3 SH**  
Second of three segments which provides students with a full-time clinical experience in a variety of off-campus settings including hospitals, clinics, private audiologic practices, rehabilitation centers, and educational settings. Direct supervision is provided by off-campus, licensed audiologists who are in contact with University faculty.

**SLA G793**  
**Audiology Clinic Internship 3** **3 SH**  
Final segment of full-time clinical experience in a variety of off-campus settings including hospitals, clinics, private audiologic practices, rehabilitation centers, and educational settings. Direct supervision is provided by off-campus, licensed audiologists who are in contact with University faculty.

### **Bouvé College Interdisciplinary Course**

**BHS G005**  
**Nutrition** **4 SH**  
Explores the fundamental role of nutrition in promoting health and introduces the use of two different diet assessment tools to assist individuals in selecting food for health promotion. Explore the nutrient composition and purposes of the food pyramid guide. Covers the physiological functions of energy providing nutrients in the body and interrelationships.

**BHS G050**  
**Health Care Research** **4 SH**  
This course provides an overview of the research process and its application in clinical arenas. Special attention is directed to the role of the health professional as a consumer of research, with concern for the ethical management and treatment of patients and their families. Elements of research design and their implications in clinical settings provide the framework for the analysis of research and the development of a research proposal. Emphasis is placed on the use of research findings for evidence-based practice. Interdisciplinary projects are strongly encouraged. *Prereq. Statistics or equivalent math course.*

**BHS G120**  
**Race, Ethnicity, and Health in the United States** **4 SH**  
Explores the role of economic, social and individual factors in explaining racial and ethnic health disparities and examines intervention approaches to eliminate them. Course themes include: genetic and social constructions of race and ethnicity, measuring race and ethnicity, differences in prevalence and patterns of disease across groups; cultural and structural factors that affect health care delivery; discrimination; racism, health status, and health care delivery; and public health approaches to prevention and improving health care delivery. Class activities will include field work.

**BHS G300**  
**Research Design** **2 SH**  
Considers research methods and designs used in varied professional settings. Emphasizes development of research techniques, including the ability to define research problems; write hypotheses; review and interpret literature; apply research designs; organize, analyze, and present data; and draw relevant conclusions. *Prereq. Familiarity with statistics and permission of instructor for non-PA students.*

**BHS G301**  
**Health Care Delivery** **2 SH**  
Explores the principal components of the health-care delivery system, emphasizing its social, political, and economic evolution and development. Discusses trends and their implications. *Prereq. Permission of instructor for non-PA students.*