

# Doctor of Audiology Entry-level program



**AuD**

## Curriculum guide 2020-21

# Doctor of Audiology

## Entry-level program curriculum guide

Information contained in this curriculum guide is subject to change.

### Sequence of courses

Course code	Course name	Credit hours
<b>FALL SEMESTER</b>		
<b>First year / Fall Session 1</b>		
AUDE 5110	Human Anatomy and Neuroanatomy	4
AUDE 5120	Infection Control and Cerumen Management	1.5
AUDE 5140	Auditory Science	4
AUDE 5180	Clinical Rotation I	0.5
AUDE 9110	Audiology Grand Rounds	0
		10
<b>First year / Fall Session 2</b>		
AUDE 5200	Acquisition and Development of Communicative Skills	2.5
AUDE 5220	Anatomy and Physiology of the Auditory-Vestibular System	4
AUDE 5230	Professional Roles and Responsibilities	1
AUDE 5240	Essentials of Audiology I	3
AUDE 5280	Clinical Rotation II	0.5
AUDE 9120	Audiology Grand Rounds	0
		11
<b>SPRING SEMESTER</b>		
<b>First year / Spring Session 1</b>		
AUDE 5300	Communication Methodology for Hearing Impaired Children	1.5
AUDE 5310	Embryology and Genetic Conditions	2.5
AUDE 5340	Essentials of Audiology II	4
AUDE 5580	Clinical Rotation III *	1
		9
<b>First year / Spring Session 2</b>		
AUDE 5400	Speech Perception	2.5
AUDE 5410	Acquired Auditory-Vestibular Disorders	3
AUDE 5440	Manual Communication I	1
AUDE 5450	Amplification I	3
AUDE 5460	Otoacoustic Emissions	2
AUDE 9130	Audiology Grand Rounds	0
		11.5
<b>FALL SEMESTER</b>		
<b>Second year / Fall Session 1</b>		
AUDE 6120	Pharmacology and Ototoxicity	2.5
AUDE 6140	Pediatric Audiology	3
AUDE 6150	Amplification II	3
AUDE 6180	Clinical Rotation IV	2
AUDE 6190	Clinical Module I	0.5
AUDE 9210	Audiology Grand Rounds	0
		11
<b>Second year / Fall Session 2</b>		
AUDE 6210	Counseling in Audiology	2.5
AUDE 6220	Tinnitus, Hyperacusis & Misophonia: Evaluation and Treatment	2.5
AUDE 6240	(Central) Auditory Processing Disorders: Assessment and Management	3
AUDE 6260	Auditory Evoked Responses and Neurodiagnostics I	3
AUDE 6280	Clinical Rotation V	2
AUDE 6290	Clinical Module II	0.5
AUDE 9220	Audiology Grand Rounds	0
		13.5
<b>SPRING SEMESTER</b>		
<b>Second year / Spring Session 1</b>		
ASHS 6300	Research Methods and Design	3
AUDE 6310	Audiological Rehabilitation for Adults	2.5
AUDE 6330	Practice Development I	2.5
AUDE 6370	Vestibular Assessment & Treatment I	3
AUDE 6380	Clinical Rotation VI	2
AUDE 6970	2nd-year Comprehensive Examination	0
		13
<b>Second year / Spring Session 2</b>		
ASHS 6400	Methods of Data Analysis	3
AUDE 6400	Manual Communication II (Elective)	(1)
AUDE 6420	Occupational and Environmental Hearing Conservation	3
AUDE 6450	Amplification III	3
AUDE 6460	Auditory Evoked Responses and Neurodiagnostics II	3
AUDE 6480	Clinical Rotation VII	2
AUDE 9230	Audiology Grand Rounds	0
		14
<b>FALL SEMESTER</b>		
<b>Third year / Fall Session 1</b>		
AUDE 7100	Basic Principles of Medical Imaging	1.5
AUDE 7150	Amplification IV	2
AUDE 7170	Vestibular Assessment & Treatment II	2.5
AUDE 7180	Clinical Rotation VIII	4
AUDE 7190	Clinical Module III	0.5
AUDE 9310	Audiology Grand Rounds	0
		10.5
<b>Third year / Fall Session 2</b>		
AUDE 7210	Educational Audiology	2.5
AUDE 7220	Advances in Audiologic Care	1.5
AUDE 7230	Practice Development II	2.5
AUDE 7280	Clinical Rotation IX	4
AUDE 7290	Clinical Module IV	0.5
AUDE 9320	Audiology Grand Rounds	0
		11
<b>SPRING SEMESTER</b>		
<b>Third year / Spring Session 1</b>		
AUDE 7300	Speech and Language Disorders in Adults (Bridge Course)	(2.5)
AUDE 7330	Ethics in Audiology	2.5
AUDE 7340	Hearing Loss and Healthy Aging	1.5
AUDE 7380	Clinical Rotation X	6
AUDE 7970	3rd-year Comprehensive Examination	0
		10
<b>Third year / Spring Session 2</b>		
AUDE 7430	Professionalism and Leadership	1.5
AUDE 7490	Early Hearing Detection and Intervention	2.5
AUDE 7480	Clinical Rotation XI	6
AUDE 9330	Audiology Grand Rounds	0
		10
<b>FALL SEMESTER</b>		
<b>Fourth year / Fall Session 1 &amp; 2</b>		
AUDE 8120	Speech and Language Disorders in Children (Bridge Course)	(2.5)
AUDE 8180	Clinical Rotation XII	18
AUDE 9410	Audiology Grand Rounds	0
		18
<b>SPRING SEMESTER</b>		
<b>Fourth year / Spring Session 1 &amp; 2</b>		
AUDE 8280	Clinical Rotation XIII	16
AUDE 9420	Audiology Grand Rounds	0
		16
<b>Total required semester credit hours</b>		<b>168.5</b>

\* Students will be enrolled in AUDE 5580 during either Spring Session 1 or Spring Session 2 of their first year.

**AUDE 5110 Human Anatomy and Neuroanatomy**

A study of the basics of human anatomy and physiology which will include anatomical terminology; biochemistry of cells; and an overview of the integumentary, skeletal, muscular, nervous, endocrine, cardiovascular, immune, respiratory, digestive and urinary systems. The development, structure and function of the central and peripheral nervous systems, including the autonomic nervous system, will be emphasized. In depth information on neurovasculature, sensory and motor pathways, sensory receptors, reflex pathways, the audiovestibular system and lesions of the nervous system at various levels will be presented. Includes laboratory requirement. *(4 credits: 3 credit lecture, 1 credit lab)*

**AUDE 5120 Infection Control and Cerumen Management**

This course will cover the basic principles of microbiology, disease process and immunology. The student will learn how infections spread and appropriate infection control procedures for audiologists including the cleaning of tools and instruments. In addition, students will learn about cerumen management methodologies, equipment, indications and contraindications. State and federal agencies that govern infection control, their guidelines and protocols applicable to the audiologist, and scope of practice and regulatory issues related to cerumen management will be addressed. Includes laboratory requirement. *(1.5 credits: 1 credit lecture, 0.5 credit lab)*

**AUDE 5140 Auditory Science**

A study of the physical nature of sound and the human psychological response to auditory stimulation. Topics include acoustic analysis from simple harmonic motion to complex waves; sensitivity; pitch, loudness, and temporal perception; masking; and binaural hearing. *(4 credits)*

**AUDE 5200 Acquisition and Development of Communicative Skills**

This course is designed to introduce students to normal acquisition and development of communication skills and to the impact of hearing loss on these skills. An introduction to disorders of communication will enable students to identify speech, language, voice and fluency concerns, and determine appropriate referrals, within the audiologist's scope of practice. *(2.5 credits)*

**AUDE 5220 Anatomy and Physiology of the Auditory-Vestibular System**

A study of the structure and function of the auditory-vestibular system. This course will cover basic human anatomy and physiology concepts relevant to hearing and balance function. There will be an emphasis on the peripheral auditory and vestibular anatomy and physiology, including the external ear, middle ear, cochlea, peripheral vestibular organs and the VIIIth Cranial Nerve. *(4 credits: 3 credit lecture, 1 credit lab)*

**AUDE 5230 Professional Roles and Responsibilities**

This class is designed to introduce students to the professional roles and responsibilities of an audiologist, as well as other members of the healthcare delivery team. With current emphasis on team delivery of healthcare services, it is important that students understand the interrelationship of the various healthcare professions in total patient care. Particular emphasis will be placed on those health professions that are educated at the various schools of A.T. Still University, including the history and philosophy of osteopathic medicine. Audiology, as a profession, will be studied in some detail. Students will learn the history of audiology and its evolution to a doctoral level profession. Scope of practice, ethics, certification, licensure, and specialty areas will be studied. Contemporary professional practice issues will be discussed by guest speakers in several specialty areas. *(1 credit)*

**AUDE 5240 Essentials of Audiology I**

The first of a two-course sequence covering basic audiometric tests and procedures. Topics will include case history, otoscopy, behavioral threshold testing, masking, speech audiometry, and puretone screening for school-age children and adults. Includes laboratory requirement. *(3 credits: 2 credit lecture, 1 credit lab)*

**AUDE 5300 Communication Methodology for Hearing Impaired Children**

This course is designed to introduce students to a range of communication options available to individuals who are deaf or hard-of-hearing. These communication options include Oral, Cued Speech, Total Communication, and Bilingual-Bicultural, with variations within each category. Reasons that families choose specific communication systems and the relative strengths and weaknesses of the various systems will be addressed. Aural rehabilitation approaches and methodologies will be covered with a focus on therapeutic aspects. Students will develop aural rehabilitation lessons appropriate to a range of students and auditory abilities. *(1.5 credits)*

**AUDE 5310 Embryology and Genetic Conditions**

This course covers embryologic development with emphasis on normal and abnormal or interrupted development. Genetic concepts and terminology will be covered together with information regarding the association of certain organ systems with audiovestibular system impairments. Material will also include information regarding genetic testing, genetic counseling, and the audiologist's role and responsibilities in identifying and managing these conditions. *(2.5 credits)*

**AUDE 5340 Essentials of Audiology II**

The second of a two-course sequence covering basic audiometric tests and procedures. Topics will include immittance audiometry, cochlear and retrocochlear site-of-

lesion tests, tests for pseudohypacusis, and techniques for measuring audiometric test performance. The course will also review instrument calibration standards and procedures utilized in the practice of audiology. Includes laboratory requirement. *(4 credits: 3 credit lecture, 1 credit lab)*

#### **AUDE 5400 Speech Perception**

An overview of the acoustics of speech and topics related to speech perception. Areas of study include normative, articulatory, and acoustic phonetics; methods of the acoustic analysis of speech; models and theories of speech perception; and multimodal processing of speech. Includes laboratory requirement. *[(2.5 credits: 2 credit lecture, 0.5 credit lab)]*

#### **AUDE 5410 Acquired Auditory-Vestibular Disorders**

This course provides a study of acquired peripheral and central pathologies affecting the auditory and vestibular systems. Disorders of the conductive, sensory, and neural systems will be covered in-depth with details provided on diagnosis, etiologies, signs and symptoms, related findings, and treatment options. Emphasis will be placed on understanding the relation between pathophysiologic factors, test measures, test outcomes, and function-dysfunction. *(3 credits)*

#### **AUDE 5440 Manual Communication I**

This course will provide a focus on improving communication abilities and utilizing varying strategies to enhance receptive and expressive clinical information. A history of manual communication systems including American Sign Language will be examined and demonstrated through Total Communication. Students will be exposed to the history and culture of the deaf community and how this special population can best be served in their clinical practice. Students will gain experience in receptive and expressive fingerspelling and signs of medical terminology. Additionally, students will be asked to reflect upon several articles and a novel providing insight into the role of the Deaf community. *(1 credit)*

#### **AUDE 5450 Amplification I**

This course will cover the history of hearing aids in the healthcare market. Past and current hearing aid styles, components, acoustics, and measurement characteristics will be discussed. Skills will be gained in taking earmold impressions; performing cleaning, maintenance, and adjustments on hearing aids; and modifying hearing aids and earmolds. Information will also be provided regarding patient assessment measures used to aid in appropriate hearing aid selection and verification, as well as how to provide basic hearing aid recommendations to patients. Includes laboratory requirement. *(3 credits: 2 credit lecture, 1 credit lab)*

#### **AUDE 5460 Otoacoustic Emissions**

A study of the origin and classification of otoacoustic emissions (OAEs), as well as test equipment and procedures for obtaining OAEs. Interpretation of results and uses of OAE data in screening and differential diagnosis of auditory disorders. Instrumentation and testing procedures will be covered in the laboratory segment of this course. Includes laboratory requirement. *(2 credits: 1.5 credit lecture, 0.5 credit lab)*

#### **AUDE 5180, 5280, and 5580 Clinical Rotation I-III**

Guided observations of audiologic activities. Students observe and assist preparations for and administration of clinical evaluations and treatment. Limited hands on experience may be included. *(0.5 to 1 credit for each course)*

#### **AUDE 6120 Pharmacology and Ototoxicity**

This course is designed to introduce audiology students to the basic concepts and principles of pharmacology. An overview of drug development, drug regulations, and basic drug classifications will be provided. In-depth information will be presented regarding drugs used in the diagnosis and treatment of hearing and balance disorders, drugs which affect the function of the auditory and vestibular systems, and the concept of polypharmacy. The course also covers ototoxicity (cochleotoxicity, vestibulotoxicity, and neurotoxicity) and ototoxic monitoring. Students will gain an appreciation for the role of audiologists related to understanding patients' needs, behaviors, and clinical outcomes associated with medication use, as appropriate for a professional committed to whole person healthcare. *(2.5 credits)*

#### **AUDE 6140 Pediatric Audiology**

The purpose of this course is to further familiarize students with the basic anatomy and physiology of the auditory system, auditory development, the rationale and principles behind the assessment of hearing in pediatric patients, and the most current and precise testing techniques (behavioral and physiological) for this population. In addition, students will become familiar with the medical aspects of hearing loss (disorders) and learn about educational opportunities for the child with a hearing impairment. Students will also become familiar with common fitting techniques in pediatric amplification. Includes laboratory requirement. *(3 credits: 2 credit lecture, 1 credit lab)*

#### **AUDE 6150 Amplification II**

This course will cover selection, fitting, and adjustment of hearing aids. Topics will include patient counseling, hearing aid selection and orientation, hearing aid fitting and verification measures, as well as ordering, billing, and ethics. The course focus will be on understanding and utilization of state-of-the-art technology. The laboratory portion of this course will focus on a range of manufacturers and technology options, pre- and post-fit testing measures and scales, as well as counseling and programming skills. Includes laboratory requirement. *(3 credits: 2 credit lecture, 1 credit lab)*

**AUDE 6210 Counseling in Audiology**

This course is designed to introduce students to the fundamental principles, contemporary theories, and applied techniques of the counseling process. Special emphasis will be placed on communication skills and techniques and issues and practices related to the psychosocial effects of hearing loss on individuals of all ages and their families. The role of counseling across the scope of audiologic practice, including diagnostic and rehabilitative activities, will be discussed. (2.5 credits)

**AUDE 6220 Tinnitus, Hyperacusis, & Misophonia: Evaluation and Treatment**

This course is designed to introduce students to tinnitus, hyperacusis, and misophonia. Various theories about the causes, mechanisms, and treatments will be addressed during class time discussions. Assessment tools will be covered and discussed. Includes laboratory requirement. (2.5 credits: 2 credit lecture, 0.5 credit lab)

**AUDE 6240 (Central) Auditory Processing Disorders: Assessment and Management**

The purpose of this course is to review basic anatomy and physiology of the auditory system as it pertains to auditory processing, to enable students to understand the theories and research on auditory processing, and to familiarize students with behavioral tests used to assess auditory processing and its related disorders. Current information regarding management of individuals with (C)APD will also be presented. Includes laboratory requirement. (3 credits: 2 credit lecture, 1 credit lab)

**AUDE 6260 Auditory Evoked Responses and Neurodiagnostics I**

This course will cover the normal aspects, recording parameters, test procedures, and interpretation of the auditory evoked response. Specific topics in this course will include electrocochleography, the auditory brainstem response and Auditory Steady State Response. Also included will be an in-depth study of pathologies of the retrocochlear system. Includes laboratory requirement. (3 credits: 2 credit lecture, 1 credit lab)

**AUDE 6310 Audiological Rehabilitation for Adults**

Topics include rehabilitation evaluation and use of self-assessment instruments; teaching the patient and family listening and helping skills, as well as other methods to enhance communication and sound awareness through individual or group communication; and meeting the rehabilitative needs of the aging population. (2.5 credits)

**AUDE 6330 Practice Development I**

This course is designed to introduce the students to the business and regulatory environment in which they will eventually practice. The topics covered include business functions, the regulation of healthcare finance and quality, and the current landscape of healthcare in the United States. (2.5 credits)

**AUDE 6370 Vestibular Assessment and Treatment I**

This course is designed to provide students with knowledge of the anatomy and physiology of the peripheral and central vestibular systems, as well as an overview of human equilibrium systems. This course will also provide students with a comprehensive overview of vestibular assessment and evaluation procedures as well as vestibular rehabilitation protocols and procedures. Students will learn how to perform a vestibular evaluation and perform certain vestibular rehabilitation procedures. Includes laboratory requirement. (3 credits: 2 credit lecture, 1 credit lab)

**AUDE 6400 Manual Communication II (Elective)**

This elective will cover vocabulary and sentence building in American Sign Language and expand knowledge of general deaf culture for the purpose of improving general Deaf patient interactions, conversations, and taking case histories. (1 credit)

**AUDE 6420 Occupational and Environmental Hearing Conservation**

This course is designed to introduce you to the principles and practices of occupational, educational, and environmental hearing conservation. Topics will include determination of noise exposure, regulatory and advisory agencies and standards, classroom acoustics, hearing conservation programs in occupational and school settings, noise abatement, and hearing protection devices. The course will also include an overview of the principles and practices of forensic audiology. Includes laboratory requirement. (3 credits: 2 credit lecture, 1 credit lab)

**AUDE 6450 Amplification III**

The purpose of this class is to review with students the auditory system as it applies to implantable devices; medical and audiologic indications for implantable hearing devices for adults and children; and the rationale and principles behind implantable hearing devices. In addition, students will spend time learning about outcomes with the different devices and rehabilitation options for recipients. Students will be familiar with the coding and reimbursement issues as they pertain to implantable devices. Includes laboratory requirement. (3 credits: 2 credit lecture, 1 credit lab)

**AUDE 6460 Auditory Evoked Responses and Neurodiagnostics II**

This course is the second of a two-course sequence on auditory evoked responses (AERs). The purpose of this course is to review the anatomy and physiology of the auditory system as it pertains to cortical evoked responses and to familiarize students with basic and applied information regarding middle and late AERs. Students will engage in case-based learning and journal club activities to integrate information obtained from AERs and other patient data related to a wide range of disorders involving attention, (central) auditory processing, speech perception, memory,

and cognition. Intraoperative neurophysiologic monitoring (IONM) techniques, and other specialized evoked responses, will also be presented. Includes laboratory requirement. (3 credits: 2 credit lecture, 1 credit lab)

**AUDE 6180, 6280, 6380, and 6480  
Clinical Rotation IV-VII**

Direct clinical observation and participation in aspects of audiological practice. Students will be expected to integrate foundational knowledge and skills into the evaluation and treatment of patients. (2 credits for each course)

**AUDE 6190 and 6290 Clinical Module I-II**

This two-course sequence is designed to provide students with opportunities to review and practice clinical procedures covered in previous and concurrent applied courses. Hands-on practice experiences are provided in a laboratory environment under faculty supervision and mentorship with a focus on the integration of diagnostic and treatment measures. (0.5 credit for each course, Pass/Fail)

**AUDE 7100 Basic Principles of Medical Imaging**

This course is designed to illustrate the uses of imaging techniques in the evaluation of auditory and vestibular pathology. The techniques of radiography, CT, MRI, fMRI, nuclear medicine (including PET & SPECT scanning), vascular imaging, and EEGs will be covered with direct correlations made to the auditory-vestibular system. (1.5 credits)

**AUDE 7150 Amplification IV**

This course provides an in-depth look at assistive listening and alerting technology to assist deaf and hard of hearing individuals in the home, school, and community. We will explore a variety of levels at which the audiologist may elect to address assistive technology. Topics will include relevant legislation, system characteristics, selection, and evaluation of devices and application to various populations. Students will be expected to complete actual use of multiple assistive listening devices and submit a laboratory report on each device. Includes laboratory requirement. (2 credits: 1.5 credit lecture, 0.5 credit lab)

**AUDE 7170 Vestibular Assessment and Treatment II**

The purpose of this class is to expand on the foundation of the anatomy, physiology, pathology, and diagnostic evaluation of the balance system within the scope of practice of an audiologist. Students will be able to perform electronystagmography and videonystagmography (ENG/VNG) upon successful completion of this course. They will have an understanding of computerized dynamic posturography (CDP) and whole body rotational testing (WBRT). The students will have a scientific and clinical background of vestibular rehabilitation. The students will have the ability to identify and triage patients with vestibular disorders into appropriate therapy programs.

Students will be instructed on the correct administration of VRT protocols and accurate evaluation of treatment efficacy. Includes laboratory requirement. (2.5 credits: 2 credit lecture, 0.5 credit lab)

**AUDE 7210 Educational Audiology**

This course will cover the role of audiologists in educational settings. Educational audiology has become recognized as a specialty area in our profession, since the responsibilities of an educational audiologist differ significantly from those of audiologists in many other clinical settings. Educational audiologists have the opportunity to make a significant contribution to the quality of educational life for children. Legislative mandates have increased the availability of educational audiology services in the schools, but the number of educational audiologists is still insufficient to provide the level of services our children deserve. Clinical and educational audiologists must understand each other's roles and work cooperatively to help address the communication needs of children. At the conclusion of this course students will have a better understanding of the role of the educational audiologist, an appreciation of how educational audiology relates to whole person healthcare, and perhaps an interest in pursuing an educational audiology role in future career planning. Course topics will include the identification, assessment, and management of hearing loss related to the educational setting. (2.5 credits)

**AUDE 7220 Advances in Audiologic Care**

Seminar to present current trends and topics important to the practice and profession of audiology. (1.5 credits)

**AUDE 7230 Practice Development II**

This course will examine the various aspects of planning a business and key business functions. The topics will include a general overview of business planning, discussion of the different business structures, various concepts in business law, specifics in costs for owning a business, and discussion of the feasibility of starting a private practice in today's healthcare system. (2.5 credits)

**AUDE 7300 Speech and Language Disorders in Adults\*  
(Bridge Course\*\*)**

This course is designed to cover the theory and techniques for the differential diagnosis and treatment of speech and language disorders in adults. Students will learn to administer and interpret common diagnostic tests; they will learn to use the assessment data to complete a written assessment report. Students will learn about treatment approaches for various communicative disorders. Topics to be included are assessments, treatments, articulation, fluency, traumatic brain injuries, aphasia, dysarthria, apraxia, dysphagia, voice disorders, and other neurological disorders such as Parkinson's. (2.5 credits)

**AUDE 7330 Ethics in Audiology\***

Ethics is the branch of philosophy that deals with the study and evaluation of human conduct in light of moral principles, which may be viewed as the individual's standard of conduct, or as a body of social obligations and duties (Institute of Chiropractic Ethics.) Audiology, in its transition to a doctoring profession, is faced with redefining many ethical principles to reflect current state of the art and clinical practice realities. Ethical obligations may not reflect personal beliefs, but audiologists have a professional obligation to be responsible for, and abide by, the ethical standards of the associations and organizations to which they belong. ASHA, AAA, ADA, and other professional organizations have adopted codes of ethics that set forth standards of integrity and ethical principles for their members. The codes call for certain behaviors in specific situations, but cannot be expected to cover every situation that calls for ethical behavior. In this class, we will examine the "spirit" of the codes as well as the "letter," and establish a framework for ethical decision-making. Multicultural aspects of patient care and issues related to disparities in healthcare will also be presented. *(2.5 credits)*

**AUDE 7340 Hearing Loss and Healthy Aging\***

This course is designed to address issues concerning the effects of aging on hearing. Changes in the auditory system as a function of aging, the impact on patient function, and healthy aging will be emphasized. The module will provide information on management of hearing loss in the aged population and strategies for collaborating with stakeholders to increase referrals for hearing healthcare. *(1.5 credits)*

**AUDE 7430 Professionalism and Leadership\***

This module will provide a forum for discussion of the organization and function of professional associations, activities that serve the professional community, and service to the public. Leadership concepts and professional characteristics will also be discussed. *(1.5 credits)*

**AUDE 7490 Early Hearing Detection and Intervention\***

This course provides a comprehensive introduction to the role of the audiologist in Early Hearing Detection and Intervention (EHDI) programs. Topics include legislative mandates; organization, design, administration, and evaluation of EHDI programs; the importance of follow-up; data management and tracking; early intervention for infants and their families; transition to the educational system; and the medical home, as well as a comprehensive review of current literature related to newborn hearing screening, diagnosis, amplification, and early intervention. Special emphasis will be placed on outcome measures used to assess the efficacy and effectiveness of the EHDI programs. *(2.5 credits)*

**AUDE 7180, 7280, 7380, 7480****Clinical Rotation VIII-XI**

Direct clinical participation in aspects of audiological practice. Students will be expected to integrate foundational knowledge and skills into the evaluation and treatment of patients. *(4 to 6 credits for each course)*

**AUDE 7190 and 7290 Clinical Module III-IV**

This two-course sequence is designed to provide students with opportunities to review and practice clinical procedures covered in previous and concurrent applied courses. Hands-on practice experiences are provided in a laboratory environment under faculty supervision and mentorship with a focus on the integration of diagnostic and treatment measures.

*(0.5 credit for each course, Pass/Fail)*

**AUDE 8120 Speech and Language Disorders in Children\* (Bridge Course\*\*)**

This course is designed to cover the theory and techniques for the diagnosis and treatment of speech and language disorders in children from preschool through school-age. Students will learn typical and atypical patterns of speech and language development. Students will be introduced to specific assessment methods, as well as specific intervention methods. *(2.5 credits)*

**AUDE 8180 and 8280 Clinical Rotation XII-XIII**

Full-time clinical rotations providing the student opportunities to participate in direct patient care within the scope of practice of audiology. Students will be involved in diagnostic evaluations, patient management and routine duties within audiology practices to expand and refine clinical skills, professional interactions, and knowledge of practice management.

*(16 to 18 credits for each course)*

**AUDE 9110, 9120, 9130, 9210, 9220, 9230, 9310, 9320, 9330, 9410, 9420 Audiology Grand Rounds**

A weekly forum for clinical presentations by students, lectures, roundtables, discussions with guest speakers, and interaction between faculty and students concerning topics related to clinical rotation experiences and the profession of audiology. *(0 credits, Pass/Fail)*

## HEALTH SCIENCE CORE COURSE DESCRIPTIONS

### **ASHS 6300 Research Methods and Design**

This course will focus on the development and application of graduate level knowledge and skills related to research methods in the health sciences. Skills regarding the development of a research proposal, including the identification of a problem, conducting a literature review, developing a hypothesis, designing a study and submitting an Institutional Review Board application are integral components of this course. *(3 credits)*

### **ASHS 6400 Methods of Data Analysis**

Development and application of graduate level knowledge and skills regarding methodologies and statistics appropriate in descriptive and experimental research. Statistical software programs will be utilized to enhance student understanding and application of course material. *(3 credits)*

## OTHER DEPARTMENTAL COURSE DESCRIPTIONS

### **AUDE 6000 Independent Project**

An in-depth, individual study of a specific topic under the direction of a faculty mentor. Prerequisite: permission of instructor and department chair. *(1 to 6 credits, Pass/Fail)*

### **AUDE 6970 2nd Year Comprehensive Examination**

*(0 credits, Pass/Fail)*

### **AUDE 6980 2nd Year Comprehensive Examination Remediation**

*(0 credits, Pass/Fail)*

### **AUDE 6990 2nd Year Comprehensive Examination Retest**

Prerequisite: successful completion of AUDE 6980. *(0 credits, Pass/Fail)*

### **AUDE 7970 3rd Year Comprehensive Examination**

*(0 credits, Pass/Fail)*

### **AUDE 7980 3rd Year Comprehensive Examination Remediation**

*(0 credits, Pass/Fail)*

### **AUDE 7990 3rd Year Comprehensive Examination Retest**

Prerequisite: successful completion of AUDE 7980. *(0 credits, Pass/Fail)*

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\*Courses denoted with an asterisk may be delivered via web-based technology. There is a total of 170 semester credit hours for the four-year program. Elective courses will be available through the Audiology department and other departments.

\*\*Bridge Courses are required for students who do not have six semester credit hours of didactic course work in the areas of speech and language disorders for adults and children shown on previous transcripts. The student will be required to enroll in one or both of the Bridge Courses to meet minimum credit hours, as specified in certain state licensure requirements. These courses may be taken by other students as electives.