

Doctorate in Audiology

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CMU's Doctorate in Audiology (Au.D.) degree program is accredited by the Council on Academic Accreditation (CAA) of the American Speech-Language Hearing Association (ASHA), located at 2200 Research Boulevard #310, Rockville, MD, 20850, phone 800-498-2071.

As the longest-standing program in the nation, Central Michigan University's Professional Doctorate in Audiology (Au.D.) prepares students to become successful audiologists through a four-year curriculum consisting of classroom and extensive clinical experience. The first two years of CMU's Audiology Program are devoted to the mastery of the audiological knowledge base. Clinical experience evolves in scope and complexity, with the final two years heavily weighted toward clinical training in a variety of settings with practicing audiologists. In addition, students acquire the knowledge and skills necessary to evaluate and interpret existing literature, and to synthesize and apply pertinent research knowledge to clinical practice and personal research interests.

Audiology Profession

Audiologists are autonomous professionals who identify, assess and manage disorders of the auditory, balance, and other neural systems. Audiologists provide audiologic (aural) rehabilitation to patients across the entire age span. Audiologists select, fit and dispense amplification systems such as hearing aids and related devices. Audiologists prevent hearing loss through the provision and fitting of hearing protective devices, consultation on the effects of noise on hearing, and consumer education. Audiologists are involved in auditory and related research pertinent to the prevention, identification, and management of hearing loss, tinnitus, and balance system dysfunction.

Audiologists provide services and work in many different types of facilities including public and private schools, hospitals, rehabilitation centers, residential facilities, community clinics, colleges and universities, private practice offices, health departments, long-term care facilities, community hearing and speech centers, and research laboratories.

Points of Pride

CMU has the longest running Au.D. Degree program in the United States. Our first Au.D. Class was admitted in 1994.

Classes are taught and clinic is supervised by dedicated and experienced faculty and clinical instructors with diverse areas of interest.

The Audiology Clinic in The Carls Center for Clinical Care and Education at Central Michigan University provides year-round diagnostic and intervention services for children and adults from Central and Northern Michigan, and on-campus supervised clinical practice for students.

The Carls Center houses on-campus Fall & Balance and Cochlear Implant Centers. There is also a mobile health unit that allows Audiology students and staff to provide services to underserved populations.

More than 100 on- and off-campus clinical placement sites in hospitals, medical care facilities, schools and private practices are available in Michigan, throughout the United States, and abroad.

The program provides state-of-the-art clinical and educational teaching and learning opportunities.

Nearly 100% pass rate on the Praxis examination on first test; nearly 100% employment/job placement upon graduation; nearly 100% graduation/program completion. For current trends, please visit

<https://www.cmich.edu/colleges/CHP/>.

Four-year Course Sequence for AuD. (total hours: 115)

All courses are 3 credit hours unless otherwise noted in (). Clinic courses are bolded.

Year 1

Fall (14 credit hours)	Spring (14 credit hours)	Summer (5 credit hours)
720: Anatomy and Physiology Underlying Neuro-otology	643: Disorders of Hearing	757: Geriatric Audiology*
730: Experimental Studies in Communication Disorders	740: Neuroanatomy	759: Introduction to Clinical Practicum (2)
731: Diagnostic Audiology	750: Advanced Hearing Science	
771: Seminars in Audiology	752: Amplification for Individuals with Hearing Loss	
759: Introduction to Clinical Practicum (2)	759: Introduction to Clinical Practicum (2)	

Year 2

Fall (15 credit hours)	Spring (15 credit hours)	Summer (6 credit hours)
754: Pediatric Audiology	763: Audiological Rehabilitation Considerations in Education	764: Audiologic Rehabilitation for Adults*
773: Advanced Amplification Fitting Strategies	765: Cochlear Implants and other Implantable Technologies	769: Intermediate Clinical Practicum
781: Electrophysiological Techniques in Audiology	782: Evaluation and Management of Vestibular Disorders	<i>*Taught every other summer to combined 1st and 2nd years</i>
853: Psychosocial Aspects of Hearing Loss	785: Auditory Processing Disorders	
769: Intermediate Clinical Practicum	769: Intermediate Clinical Practicum	

Year 3

Fall (13 credit hours)	Spring (10 credit hours)	Summer (5 credit hours)
744: Occupational and Environ- mental Hearing Conservation	863: Professional Issues in the Practice of Audiology	995: Clinical Externship (5)
783: Advanced Electrophysiologi- cal and Vestibular Techniques in Audiology	898: Doctoral Project	
898: Doctoral Project	849: Adv. Clinical Practicum (4)	
849: Adv. Clinical Practicum (4)		

Year 4

Fall (9 credit hours)	Spring (9 credit hours)
995: Clinical Externship (9)	995: Clinical Externship (9)

On/Off Campus Clinic: Two to three full days every semester while on campus, which increases as the student progresses through the program.

Externships:

Summer 1 = One week (Hearing Aid manufacturer)

Summer II = 8-10 weeks (Private Practice/Medical Center)

Au.D. Faculty and Clinical Instructors

Nicole Ferguson, AuD, CCC-A, FAAA, Director of Clinical Instruction and Audiological Services. Pediatric & adult diagnostics; electrophysiology; vestibular assessment; amplification; tinnitus; Teleaudiology; Veteran hearing & balance health.

Barbara Jackson, AuD, CCC-A, Audiology Clinical Instructor. Cochlear implants; amplification; educational audiology.

Stacey Lim, Ph.D., Assistant Professor. Cochlear implantation; aural rehabilitation; language and literacy development; and cognitive processing mechanisms.

Susan Naeve-Velguth, Ph.D., CCC-A, Professor. Early identification and intervention for children with hearing loss; effects of childhood hearing loss on speech and language development; American Sign Language linguistics; Deaf Culture.

M. Dawn Nelson, Ph.D., CCC-A, FAAA, Associate Professor. Evoked potentials and neurodiagnostics; neuro-anatomy; central auditory processing disorders; vestibular assessment.

Shannon Palmer, Ph.D., CCC-A, Assistant Professor. Electrophysiological Measures of Temporal Processing; Inclusion of Home-Birth Midwives in Universal Newborn Hearing Screening; Auditory Processing in Individuals with Visual Impairments.

Claudia Pastorelli, AuD, CCC-A, FAAA, Clinical Instructor. Adult and Pediatric Diagnostic and Amplification; Auditory Brainstem Response Testing; Vestibular Assessment.

Yunfang Zheng, Sc.D., CCC-A, Assistant Professor. Cochlear implants; aural rehabilitation; amplification.

Admission Criteria

To be considered for admission into CMU's Au.D. Program, students must have completed or be in the final stages of completing a Bachelor's degree. Students must earn a minimum cumulative undergraduate grade point average (CGPA) of a 3.0 and a minimum 3.0 grade point average in their major coursework (MGPA), with no individual course grade below a 2.0.

Candidates for the Au.D. Doctoral program are normally expected to have completed the following courses (or their equivalencies):

- CSD 230 – Introduction to Speech, Language, and Hearing Disorders 3 (3-0) Aspects of speech-language pathology and audiology for elementary, secondary, and special education teachers, parents, and allied professionals in the management of speech, language, and hearing disorders.
- CSD 278 - Descriptive Phonetics 3 (3-0) Broad and narrow transcription of normal and disordered American English speech sound production using the International Phonetic Alphabet.
- CSD 330 - Language Development 3 (3-0) Study of language development in normally developing children from birth through adulthood; oral language sample analysis; language characteristics in disordered language learners.
- CSD 331 - Introduction to Audiology 3 (3-0) Anatomy and basic psychophysics of hearing; pathologies causing hearing loss; quantitative measurements of hearing; practice in testing.
- CSD 335 - The Anatomy and Physiology of Speech and Hearing 3 (3-0) Anatomical and neuroanatomical structures and functions for speech and hearing.
- CSD 431 - Audiologic Rehabilitation 3 (3-0) Habilitative and rehabilitative approaches for limited-hearing children and adults including lip-reading, auditory training, speech and language development. Clinical observation and practicum.
- CSD 463 – Introduction to Acoustic Phonetics 3 (3-0) Physical bases of sound and the acoustic characteristics of speech production and perception.

All applicants are required to take the Graduate Record Examination (GRE).

The class of 2022 had an average overall undergraduate GPA of 3.7 and a CSD GPA of 3.8. They ranked in the 65th percentile on the verbal portion of the GRE, the 36th percentile on the GRE quantitative, and the 65th percentile in the GRE writing portion. We provide this information so you may assess your chances of admission and to help with your planning process. It is important to note, however, that each applicant is evaluated based on their own credentials and merit.

Technical Standards

The Audiology program at CMU is designed to prepare graduates for clinical careers as Audiologists. The Essential Functions and Technical Standards for Audiology establish essential qualities that each individual admitted to the program and graduate of the program must possess. These technical standards are required for admission and are expected to be maintained by the student throughout the program.

Tuition and Financial Aid

For current doctoral tuition rates, please refer to the current Graduate bulletin or visit <https://www.cmich.edu/colleges/cgs>. All Audiology Doctoral students are granted Resident (Michigan) tuition.

Tuition Awards for Graduate Students

Central Michigan University offers four valuable resident (Michigan) tuition awards for qualified graduate students. For more information, please contact the College of Graduate Studies at (989)774-4723 prior to registering for graduate coursework.

- Legacy Tuition Award
- Nonresident Veteran's Award
- Neighboring Regions Tuition Award
- Out-of-State Tuition Merit Award

CDO Department Graduate Assistantships

Au.D. graduate students receive at minimum a partial graduate assistantship during their first year. As part of this award, students also receive in-state tuition for all four years.

CDO Department Scholarships

The Division of Audiology awards two scholarships based on academic and clinical performance, financial need, residence, volunteer work, and year in program as specified by each scholarship. Students do not apply for awards. Students will be notified if awarded.

Estimated Program Costs for Tuition and Books/Supplies

All Audiology Doctoral students are granted Resident (Michigan) tuition rate.

Tuition for 115 credit hours = \$75,670.00*

Books / Supplies expenses = \$6,000

*Tuition cost based on the 2017-18 Doctoral Resident (Michigan) Tuition rate of \$658.00 per credit hour.

**Please note that tuition rates generally increase each year. All costs are subject to change by the CMU Board of Trustees.