Audiology and Communication Sciences

The Program in Audiology and Communication Sciences (PACS) offers exceptional graduate education programs in clinical audiology (AuD), deaf education (MSDE), and speech and hearing sciences (PhD) as well as an undergraduate minor in speech and hearing (http://bulletin.wustl.edu/undergrad/artsci/speechhearing/#minors). As a member of a consortium of programs known as the Central Institute for the Deaf at Washington University School of Medicine, PACS is closely affiliated with the clinical and research programs of the Department of Otolaryngology (https://oto.wustl.edu/), including adult audiology clinics, the cochlear implant clinic, the dizziness and balance center, basic research centers, clinical research efforts and applied research centers. PACS offers the following graduate degree programs:

Doctor of Audiology (AuD)
The AuD is a four-year course of study that prepares students as independent clinical audiologists. Established in 1947, the audiology training program is among the oldest and most prestigious of its kind. Today, its curriculum serves as a national model, immersing students in academic course work, clinical experiences and research opportunities. The AuD program welcomes students from all undergraduate backgrounds, with no specific prerequisite course work required to apply. The AuD program is accredited by the Council on Academic Accreditation in Audiology and Speech-Language Pathology of the American Speech-Language-Hearing Association (https://www.asha.org/).

Master of Science in Deaf Education (MSDE)
The MSDE is a two-year course of study that prepares students as teachers of children who are deaf or hard of hearing from birth to grade 12. With origins dating back to 1914, the program is internationally recognized as a leader in training educators and leaders in the field of deaf education. The program's comprehensive curriculum, emphasis on immersion in practice teaching, and experienced faculty attract students nationally from a wide variety of backgrounds. The MSDE program welcomes students from all undergraduate backgrounds, with no specific prerequisite course work required to apply. The MSDE program is accredited by the Missouri Department of Elementary and Secondary Education (https://dese.mo.gov/) and the Council on Education of the Deaf (https://councilondeafed.org/).

Speech and Hearing Sciences (PhD)
The PhD program prepares students for academic and research careers in the speech and hearing sciences. Established in 1947, the program is dedicated to fostering scientific inquiry in the speech and hearing sciences and related disciplines. PhD students complete required course work, mentored teaching experiences, and research — including the dissertation — under the close mentorship of a faculty member. General areas of emphasis include audiology, deaf education, sensory neuroscience, and speech and language. An academic background in the field and research experience are required to be considered for admission to the PhD program.

Additional Information
Application and admission information (https://pacs.wustl.edu/admissions/) can be found on the PACS website. Additional information about the degrees offered by PACS can be found via links on the Degrees & Offerings (p. 1) tab of this page. For complete information, please visit the PACS website (https://pacs.wustl.edu/).

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Program in Audiology and Communication Sciences
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Degrees & Offerings
• Doctor of Audiology (http://bulletin.wustl.edu/medicine/degrees-offerings/doctor-of-audiology/)
• Master of Science in Deaf Education (http://bulletin.wustl.edu/medicine/degrees-offerings/msde/)
• PhD in Speech and Hearing Sciences (http://bulletin.wustl.edu/medicine/degrees-offerings/speech-hearing-phd/)
• Minor in Speech and Hearing Sciences (http://bulletin.wustl.edu/undergrad/artsci/speechhearing/#minors)

Research
The integration of research into the curriculum is a distinctive feature of the PACS graduate programs. All students receive research training through course work and the completion of an independent research project. Additional opportunities to pursue individual research interests are also available, including via Grand Rounds, colloquia, brown-bag seminars, journal clubs and similar opportunities. In addition, elective summer research opportunities, which include a stipend, are also available for interested and qualified AuD students.
The affiliated Department of Otolaryngology's (https://oto.wustl.edu/) Harold W. Siebens Hearing Research Center provides focused research in two primary areas. The Fay & Carl Simons Center for the Biology of Hearing and Deafness is made up of a group of investigators within the department who study the cellular and molecular mechanisms of auditory signal transduction, sensory cell death, and regeneration and development. Ongoing and new studies within this group are adding to our understanding of the molecular and cellular processes of the development of neural connections, hearing loss and the potential for future treatments. In the Center for Childhood Deafness and Adult Aural Rehabilitation, researchers are achieving a better understanding of how communication disorders can be measured, treated and overcome.

Additional areas of research focus within the department include the study of normal vestibular function and vestibular disorders, hearing aids, cochlear implants, auditory brain stem implants, age-related and noise-induced hearing loss, and the education of children who are deaf or hard of hearing.

**Faculty**

**Casey Reimer, PhD** (https://pacs.wustl.edu/people/casey-reimer-phd/)
Director of Deaf Education Studies
Assistant Professor of Otolaryngology

**Amanda Ortmann, PhD** (https://pacs.wustl.edu/people/amanda-j-ortmann-phd/)
Director of Audiology Studies
Assistant Professor of Otolaryngology
Assistant Professor of Audiology and Communication Sciences

For a full list of participating faculty and staff, please visit the PACS website (https://pacs.wustl.edu/our-faculty-2).

**Courses**

Visit online course listings to view offerings for M89 PACS (https://courses.wustl.edu/CourseInfo.aspx?sch=M&dept=M89).

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**M89 PACS 324 Acoustics and Speech Perception**
Topics include principles of acoustics, with applications to speech and hearing. Basic physics of sound -- including simple harmonic motion, wave propagation in air, resonance, sound measurement and spectral analyses, filtering, and digital sound processing -- are discussed. Principles will be applied to the production and physical properties of speech. An overview of the acoustic characteristics of individual speech sounds and of suprasegmental speech patterns will be provided. Perceptions of speech and non-speech sounds are discussed.
Credit 3 units.

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**M89 PACS 401 Anatomy and Physiology of Speech and Hearing**
Introduction to anatomy and physiology of the peripheral hearing system and central nervous system, including functional descriptions of the systems and processes underlying speech and hearing function and dysfunction.
Credit variable, maximum 3 units.

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**M89 PACS 4011 Behavior Management**
Introduction to various behavior management systems effective in both individual and group environments. Behavior interventions, classroom management strategies, environmental controls, psychodynamic techniques, and biophysical interventions are discussed, observed, and practiced. Focus is on working with children who are deaf or hard of hearing.
Prerequisite: Permission of department required.
Credit 2 units.

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**M89 PACS 416 Evaluation Techniques for Children Who Are Deaf or Hard of Hearing**
An introduction to psychometrics with emphasis on the selection, interpretation and evaluation of assessments. Specific techniques for evaluating intellectual, educational, and linguistic abilities and achievement in children who are deaf or hard of hearing, from infancy through adolescence, are discussed and demonstrated. Prerequisite: Permission of department required.
Credit 3 units.

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**M89 PACS 421 Introduction to Electroacoustics**
Introduction to the physics of sound. Topics include production, transmission and reception of sound and factors affecting human communication. Includes discussion, lectures, problems and lab.
Credit 3 units.

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**M89 PACS 424 Speech and Hearing Sciences**
Surveys a broad array of speech and hearing science topics. Focus is on how speech and hearing science research findings can be applied to the practice of deaf education.
Credit 1 unit.
M89 PACS 4301 Sign Language I
Basics of American Sign Language are introduced, including vocabulary, grammatical structure, fingerspelling and cultural information about the deaf community. This is a highly interactive and participatory course.
Credit 2 units. EN: H

M89 PACS 4302 Sign Language II
Continues development of American Sign Language with additional vocabulary, emphasis on expressive and receptive abilities, conversational skills, and knowledge of deaf culture. This is a highly interactive and participatory course. Prerequisite: PACS 4301-Sign Language I.
Credit 2 units. EN: H

M89 PACS 434 Typical Language Development
Study of typical language development, including the phonologic, morphologic, semantic, syntactic and metalinguistic aspects. Interactions between linguistic and other areas of child development will be discussed. Contrasts will be explored between typical and atypical child development to shed light on language learning processes.
Credit 3 units.

M89 PACS 438 Early Literacy Development of Children Who Are Deaf or Hard of Hearing
Development of early print-recognition, reading and writing of children who are typically hearing and children who are deaf or hard of hearing. Focus is on the years leading up to kindergarten. An overarching theme is the interaction between early language and early literacy development. Evidence-based strategies for differentiated instruction will also be discussed. Permission of department required.
Credit 3 units.

M89 PACS 4301 Sign Language I
Basics of American Sign Language are introduced, including vocabulary, grammatical structure, fingerspelling and cultural information about the deaf community. This is a highly interactive and participatory course.
Credit 2 units. EN: H

M89 PACS 4302 Sign Language II
Continues development of American Sign Language with additional vocabulary, emphasis on expressive and receptive abilities, conversational skills, and knowledge of deaf culture. This is a highly interactive and participatory course. Prerequisite: PACS 4301-Sign Language I.
Credit 2 units. EN: H

M89 PACS 434 Typical Language Development
Study of typical language development, including the phonologic, morphologic, semantic, syntactic and metalinguistic aspects. Interactions between linguistic and other areas of child development will be discussed. Contrasts will be explored between typical and atypical child development to shed light on language learning processes.
Credit 3 units.

M89 PACS 438 Early Literacy Development of Children Who Are Deaf or Hard of Hearing
Development of early print-recognition, reading and writing of children who are typically hearing and children who are deaf or hard of hearing. Focus is on the years leading up to kindergarten. An overarching theme is the interaction between early language and early literacy development. Evidence-based strategies for differentiated instruction will also be discussed. Permission of department required.
Credit 3 units.

M89 PACS 443 Speech and Language Disorders
This course surveys a broad range of speech and language disorders in terms of associated characteristics, assessment techniques and treatment considerations. Prerequisite: Permission of department required.
Credit 3 units.

M89 PACS 444 Amplification Systems and Aural Rehabilitation for Children
This course will provide students with a broad understanding of amplification systems and principles and methods of aural rehabilitation as they apply to children who are deaf or hard of hearing. Amplification systems to be covered will include digital hearing aids, cochlear implants and a full range of assistive devices. Aural rehabilitation topics will emphasize patient management and will include communication strategies, conversation styles and speech recognition assessment. Students will be provided with videotapes, live demonstrations and in-class activities. Direct contact with children and technological devices will also be used to support lectures and discussions. Prerequisite: Permission of department required.
Credit 2 units.

M89 PACS 4511 Practicum in Deaf Education
Study of typical language development, including the phonologic, morphologic, semantic, syntactic and metalinguistic aspects. Interactions between linguistic and other areas of child development will be discussed. Contrasts will be explored between typical and atypical child development to shed light on language learning processes. Prerequisite: Permission of department required.
Credit 6 units.

M89 PACS 4512 Practicum in Deaf Education
Supervised practicum in education of children who are deaf or hard of hearing. Students will be placed in field experiences (early, mid-level and culminating levels) in a variety of educational settings with a variety of age ranges, using interventions in areas such as language, speech, auditory training, reading, math and other content areas. Prerequisite: Permission of department required.
Credit 7 units.

M89 PACS 4515 Language Instruction for Children Who Are Deaf or Hard of Hearing
Principles and methods of developing competence in spoken English in children who are deaf or hard of hearing, birth to grade 12. Includes presentation of differentiated instructional techniques for teaching a diverse population of children who are deaf or hard of hearing English vocabulary, syntax and pragmatics, as well as techniques for auditory training. Evaluations and data-driven lesson planning/IEP/IFSP development will be discussed, as well as the role of families as engaged, educational partners in spoken language development. Prerequisite: Permission of department required.
Credit 3 units.

M89 PACS 4525 Foundations of Literacy Theory and Instruction
Principles and methods of developing reading and writing competence in children who are typically hearing, with an emphasis on the stages of development and appropriate teaching sequences. Based on this foundation, strategies and methods will be presented for making appropriate differentiated learning adaptations and interventions for reading instruction with students who are deaf or hard of hearing who have language and reading deficits. Additional topics include the use of children's literature in instruction, the intersection of language and reading development, content literacy, and general language arts instruction. Prerequisite: Permission of department required.
Credit 4 units.

M89 PACS 4526 Literacy Lab: A Focus on Typical and Atypical Learners
Emphasizes observation and some practice planning and teaching reading and writing with students who are typical and atypical learners, including children who are deaf or hard of hearing and who struggle to develop appropriate literacy skills. Observations will focus on areas such as how teachers use differentiated learning strategies for diverse learners, the use of children's literature in instruction, the intersection of language and reading development, instruction in content literacy, and general language arts instruction. Prerequisite: Permission of department required.
Credit 2 units.
M89 PACS 454 Mathematics and Content-Area Instruction for Children Who Are Deaf or Hard of Hearing I
Principles and methods of teaching mathematics to students who are typically hearing and those who are deaf or hard of hearing. Strategies for other content-area instruction (science, social studies), use of instructional technology, and strategies for improving content literacy will also be discussed, with an emphasis on techniques for working with children who are deaf or hard of hearing. Students will practice developing and implementing lesson plans that are aligned to state and national standards. Prerequisite: Permission of department required. Credit 3 units.

M89 PACS 455 Mathematics and Content-Area Instruction for Children Who Are Deaf or Hard of Hearing II
A continuation of PACS 454. Principles and methods of teaching mathematics to students who are typically hearing and those who are deaf or hard of hearing. Strategies for other content-area instruction (science, social studies), use of instructional technology, and strategies for improving content literacy will also be discussed, with an emphasis on techniques for working with children who are deaf or hard of hearing. Students will practice developing and implementing lesson plans that are aligned to state and national standards. Prerequisites: PACS 454 and permission of department required. Credit 3 units.

M89 PACS 457 Counseling Parents of Children Who Are Deaf or Hard of Hearing
Examines the psychological needs of families who have children who are deaf or hard of hearing. The aim of the course is to help teachers of children who are deaf or hard of hearing interact more effectively with parents and caregivers, using a collaborative model that views families as engaged partners in the educational process. Students will develop a repertoire of interviewing and counseling skills, as well as learn about a wealth of resources to share with families. Prerequisite: Permission of department required. Credit 3 units.

M89 PACS 458 Speech for Children Who Are Deaf or Hard of Hearing
Development, improvement and maintenance of speech skills for children who are deaf or hard of hearing through multisensory approaches. Articulation, voice and rhythm patterns are considered. Lectures, demonstrations and practice. Prerequisite: Permission of department required. Credit 3 units.

M89 PACS 460 Audiology Staffing
Discussion and presentations of clinical cases and issues related to practice in clinical audiology. Prerequisite: Permission of department required. Credit 1 unit.

M89 PACS 461 Practicum in Audiology
Supervised practicum in audiology. Prerequisite: permission of department required. Credit 1 unit.

M89 PACS 4612 Practicum in Audiology
Supervised practicum in audiology. Prerequisite: permission of department required. Credit 1 unit.

M89 PACS 4613 Practicum in Audiology
Supervised practicum in audiology. Prerequisite: permission of department required. Credit 3 units.

M89 PACS 4621 Practicum in Audiology
Supervised practicum in audiology. Prerequisite: permission of department required. Credit 2 units.

M89 PACS 4622 Practicum in Audiology
Supervised practicum in audiology. Prerequisite: permission of department required. Credit 2 units.

M89 PACS 4623 Practicum in Audiology
Supervised practicum in audiology. Prerequisite: permission of department required. Credit 4 units.

M89 PACS 4631 Practicum in Audiology
Supervised practicum in audiology. Prerequisite: permission of department required. Credit 2 units.

M89 PACS 4632 Practicum in Audiology
Supervised practicum in audiology. Prerequisite: permission of department required. Credit 2 units.

M89 PACS 4633 Practicum in Audiology
Supervised practicum in audiology. Prerequisite: permission of department required. Credit 6 units.

M89 PACS 463A Pre-Clinical Externship
Credit 1 unit.

M89 PACS 4641 Clinical Externship in Audiology
Clinical externship in audiology (on campus). Prerequisite: permission of department required. Credit 9 units.

M89 PACS 4642 Clinical Externship in Audiology
Clinical externship in audiology (on campus). Prerequisite: permission of department required. Credit 9 units.

M89 PACS 4651 Clinical Externship in Audiology
Clinical externship in audiology (off campus). Prerequisite: permission of department required. Credit 9 units.
M89 PACS 4652 Clinical Externship in Audiology
Clinical externship in audiology (off campus). Prerequisite: permission of department required. Credit 9 units.

M89 PACS 466 Rehabilitative Audiology
Principles and methods of aural rehabilitation with an emphasis on patient management. Topics include communication strategies and conversation styles, speech recognition assessment and hearing aid service provisions for adults, older persons, children, and family members. Prerequisite: permission of department required. Credit 3 units.

M89 PACS 468 Pediatric Audiology
Fundamentals of audiologic assessment for infants and children. Behavioral and electrophysiologic procedures, and assessment of auditory processing abilities, are presented. Prerequisite: permission of department required. Credit 3 units.

M89 PACS 470 Business Practices
Issues relating to establishing a private practice including clinical management, small business and accounting practices, models of private practice, referrals and reimbursement, and managed care. Prerequisite: permission of department required. Credit 2 units.

M89 PACS 5001 Electrophysiologic Techniques I
Introduces basic concepts in administration and interpretation of physiologic and electrophysiologic measures, with focus on auditory evoked potentials (AEP). Content covers basic instrumentation, parameters and variables affecting the AEP, auditory brainstem response (ABR), middle (MLR) and late (LLR) evoked potentials, auditory steady state response (ASSR) and otoacoustic emissions (OAE). Prerequisite: permission of department required. Credit 3 units.

M89 PACS 5002 Electrophysiologic Techniques II
Advanced concepts related to the administration and interpretation of physiologic and electrophysiologic measures. Content includes in-depth study of ABR and other auditory evoked potentials, and the clinical application of these for the audiologist. Additional topics include study of electrocochleography (ECochG). P300 auditory responses, and mismatched negativity (MMN). This course will include a thorough study of intraoperative monitoring including neurophysiology and anatomy review, cranial nerve monitoring, spinal cord monitoring, and facial nerve monitoring. Prerequisites: permission of department required. Credit 1 unit.

M89 PACS 502 Pharmacology
Includes basic information related to medications utilized for treating common hearing/balance disorders. Hearing and balance side effects of medications are discussed, as are ototoxic and preventative mechanisms related to pharmacology. Prerequisites: permission of department required. Credit 1 unit.

M89 PACS 505 Auditory Neuroscience
Development of an in-depth understanding of issues related to auditory neurophysiology from the auditory nerve to the cortex. Prerequisites: permission of department required. Credit 2 units.

M89 PACS 506 Genetics in Hearing Loss
Study of the genetic causes of hearing loss and balance disorders, and syndromes affecting the auditory and vestibular systems. Prerequisites: Permission of department required. Credit 1 unit.

M89 PACS 507 Vestibular Disorders
Comprehensive course covering the assessment, diagnosis and treatment of vestibular disorders. Prerequisites: Permission of department required. Credit variable, maximum 3 units.

M89 PACS 510 Auditory Perception
Study of how the listener perceives parameters of and differences in acoustical stimuli. Perception of the speech stimulus is also studied in detail, both for listeners who are typically-developing and those who are deaf or hard of hearing. Prerequisites: Permission of department required. Credit 3 units.

M89 PACS 511 Hearing Conservation
This course will cover topics related to hearing conservation, including effects of noise on hearing, environmental noise, classroom acoustics, federal regulations, interactions of noise and other agents, and ototoxicity. Additional topics may vary year-to-year. Prerequisites: Permission of department required. Credit 3 units.

M89 PACS 517 Counseling for Audiology
Examines the relationship between clinician and patient in audiology. Topics include counseling theory and practices, and principles and methods of effective interviewing and counseling across the lifespan. Prerequisites: Permission of department required. Credit 2 units.

M89 PACS 519 Psychosocial and Educational Foundations of Deafness
Examines psychological, social, educational, legal, historical, and cultural influences related to individuals who are deaf or hard of hearing. Additional topics include IEPs and interprofessional collaboration related to post-high-school transitions. Prerequisite: Permission of department required. Credit 2 units.

M89 PACS 551 Research Seminar
A seminar of variable topics related to research in speech and hearing sciences. Each semester/section has its own specific area of focus, which may include an investigation of active areas of research, an overview of outcomes-based research and evidence-based practice for students’ research projects, or thorough analysis and discussion of a specific area of active research. Refer to section description for information on specific topics by section. Prerequisite: Permission of department required.
M89 PACS 554 Fundamentals of Early Intervention and Child Development
Course provides information about general and exceptional child development, focusing on ages birth through five years. Course also discusses historical and philosophical tenets of early intervention practice, focusing on a collaborative coaching model, which views families as engaged partners in the child's education. Other topics include addressing needs of families from a variety of cultural and economic backgrounds, linking families to resources, and federal laws that govern special education services for children with disabilities including transitions in service provisions for children at the age of 3 years. Prerequisites: Permission of department required.
Credit 1 unit.

M89 PACS 555 Early Intervention: Serving Children Who Are Deaf or Hard of Hearing, Birth to Age 5
This course provides an overview of early childhood development of children who are deaf or hard of hearing, birth to age 5, with particular focus on early speech and language development, intervention strategies, assessment techniques, instructional strategies, and aural rehabilitation. Course discusses the philosophical tenets of early intervention practice, which views families as engaged partners in the child's education, and respects cultural and linguistic diversity. Students will learn about IFSP and IEP development, as well as a variety of resources that can be provided to families. Prerequisites: Permission of department required.
Credit 3 units.

M89 PACS 556 Pre-Service Teacher Preparation
This course is designed to help students in the deaf education teacher training program create a teaching portfolio that reflects their own teaching development. Students will demonstrate their ability to reflect on and critique their own teaching practice, especially in relation to course planning, instructional strategies, differentiated learning, data-based decision making, tiered systems for supporting instruction, and classroom management. Professional issues, including developing a résumé and conducting interviews, will also be discussed. Prerequisites: Permission of department required.
Credit 1 unit.

M89 PACS 5601 Clinical Audiology I
An introduction to the field of clinical audiology. Covers the role of the audiologist in the diagnosis and treatment of hearing disorders; the administration and interpretation of audiologic test results; and amplification systems and assistive devices, such as DM/FM technology. Additional topics may include relevant calibration and instrumentation requirements, audiology as a career, aural rehabilitation, and legal and ethical issues in the field. Prerequisites: Permission of department required.
Credit 3 units.

M89 PACS 5602 Clinical Audiology II
Covers hearing evaluation and diagnosis in clinical audiology from infancy through adulthood. Topics include auditory processing disorders, functional hearing loss, and other advanced measures. Prerequisites: Permission of department required.
Credit 3 units.

M89 PACS 5615 Hearing Devices in Audiology I
Philosophical issues related to the selection and evaluation of hearing devices, including hearing aids and alternative devices. Examines experimental and field research methods as they apply to audiology and communication sciences. Covers such methods as surveys, survey interviews, content analysis, and experimental design. Prerequisites: Permission of department required.
Credit 4 units.

M89 PACS 5651 Hearing Devices in Audiology II
Advanced issues related to the selection and evaluation of hearing aids. Means of adjusting hearing aids and measuring their function and benefit. Prerequisite: permission of department required.
Credit 3 units.

M89 PACS 5653 Hearing Devices in Audiology III
Course covers a variety of topics related to selection, fitting and rehabilitation of cochlear implant patients. Lectures and practical experience in psychophysical testing, programming of the cochlear implant, and auditory training. Prerequisite: permission of department required.
Credit 3 units.

M89 PACS 569 Hearing Disorders
This course covers the nature and causes of hearing disorders, including outer and middle ear, cochlear, retrocochlear and central nervous system. Prerequisites: Permission of department required.
Credit 2 units.

M89 PACS 570 Independent Study
Students engage in independent work on the Independent Study, which demonstrates advanced critical thinking and writing skills. Prerequisites: Permission of department required.
Credit variable, maximum 6 units.

M89 PACS 5700 Capstone Project
Independent work on the Capstone Project. Prerequisites: Permission of department required.
Credit variable, maximum 6 units.

M89 PACS 5701 Capstone Project Seminar
This weekly, joint meeting is intended to provide extra and preliminary support for initiation of the Capstone Project. Areas will include but are not limited to: journal article critique, scientific writing, overview of research design and methodologies, statistical review, support for graph and table construction, and others. Prerequisites: Permission of department required.
Credit 1 unit.

M89 PACS 574 Statistics and Research Methods
Examines experimental and field research methods as they apply to audiology and communication sciences. Covers such methods as surveys, survey interviews, content analysis, and experimental design. Prerequisites: Permission of department required.
Credit 3 units.
M89 PACS 575 Special Topics
Special topics in speech and hearing sciences, audiology and/or education of the deaf or hard of hearing. Contact the department for more information. Prerequisites: Permission of department required.
Credit variable, maximum 4 units.

M89 PACS 577 Research in Speech and Hearing
Prerequisites: Permission of department required.
Credit variable, maximum 12 units.

M89 PACS 587 Dissertation Research
Prerequisites: Permission of department required.
Credit variable, maximum 12 units.

M89 PACS 600 Mentored Teaching Experience in Speech and Hearing
This course involves mentored teaching experience as a graduate teaching assistant. Under faculty supervision, credit may be earned through the instruction of undergraduate or graduate students in courses offered by PACS. Corequisite: LGS 600-48.
Credit variable, maximum 12 units.

M89 PACS 9000 Full-Time Graduate Study/Research
For AuD and MSDE students only; PhD students register under LGS 9000.

M89 PACS 9001 Full-Time Graduate Study in Absentia
For AuD and MSDE students only; PhD students register under LGS 9001.