



Master of Science in auditory and language neuroscience

The MS in auditory and language neuroscience is a full-time, two-year graduate degree program on ASU's Tempe campus that prepares you to conduct neuroscience research related to auditory and language processes. While gaining hands-on experience in instrumentation and research, you will contribute to impactful auditory and language neuroscience research that improves people's lives.

Research lab opportunities and extensive elective options provide you with a well-rounded education. Graduates of the program are highly competitive for careers in academic research, clinical research and technology settings, as well as for medical training and doctoral programs in neuroscience, communication sciences and disorders, psychology and bioengineering.



Conduct cutting-edge
research to advance
science and improve lives.

\$92K

**Median 2020 salary for
medical scientists**

U.S. Bureau of Labor Statistics

ASU is

6th

in the U.S.

**for research expenditures for
institutions of higher education
without a medical school.**

*National Science Foundation's
Higher Education*

Research and Development rankings

ASU is among the

best

**graduate schools
in the U.S.**

U.S. News & World Report, 2022

#1



in the U.S. for innovation

ASU ahead of MIT and Stanford

– U.S. News & World Report

7 years, 2016–2022

MS in auditory and language neuroscience curriculum

Our curriculum combines core courses, electives, research and a culminating experience of a thesis or applied project. Knowledge and skills gained can help you pursue your goals in advanced research, medicine or academia.

Required courses

SHS 542 Applied Research Methods in Auditory and Language Neuroscience

Learn about the fundamentals of experimental design and their application for psychoacoustics, electroencephalograms, event-related potentials and MRIs.

NEU 591 Data Analysis in Neuroscience or STP 530 Applied Regression Analysis

Understand data types, experimental designs and statistical analyses that are common in auditory and language neuroscience.

SHS 590 Research Integrity and Conduct in Auditory and Language Neuroscience

Learn and apply the gold standards of responsible research and academic integrity as it relates to your research and academic experiences in the field of neuroscience and beyond.

Electives

Among the program highlights are the electives that you can choose from. At least 12 credit hours must be fulfilled from approved elective courses, which include:

- BMI 507 Introduction to Digital Image Analysis and Processing
- PSY 535 Cognitive Processes
- PSY 598 Science of Art, Music and Brain Activity
- SHS 513 Neurophysiology of the Auditory System
- SHS 543 Functional Neuroimaging of Language and Related Processes
- SHS 555 Cochlear Implants
- SHS 576 Neuromotor Speech Disorders
- SHS 598 Speech and Audio Processing and Perception

Research

Two lab rotations in your first year will embed you in current research. Assignments are selected based on factors like faculty availability, lab and project personnel needs, and student interest. Participate in faculty research on topics like aging, disorders of spoken and written language, implants, memory, perception and many more.

Culminating experience

Implement what you've learned with a thesis or applied project in your final year of the program. Design your research or project to explore your area of interest.

4+1

Accelerated master's program

The College of Health Solutions offers an accelerated program designed to enable highly qualified undergraduate majors to earn both a Bachelor of Science degree and a Master of Science degree in five years. Undergraduate students accepted into this program share designated 400- and 500-level coursework, allowing the student to complete both degrees more quickly. Access the same high-quality coursework while accelerating your path to your career goal.

The **College of Health Solutions** at Arizona State University translates scientific health research and discovery into practice. Its programs **prepare students to address the challenges facing our populations to stay healthy, improve their health, and manage chronic disease** — all toward improving health outcomes.