

# COMMUNICATION SCIENCES AND DISORDERS AND AUDIOLOGY PHD/AUD

## Degree Requirements

The following requirements are in addition to, or further elaborate upon, those requirements outlined in The Graduate School Policy Guide (<https://catalogs.northwestern.edu/tgs/academic-policies-procedures/>).

## Course Requirements

**Total Units Required for PhD:** 11 didactic courses, 1 ethics (non-credit bearing), 3 lab experiences, 3 independent studies

**Total Units Required for AuD:** 21 didactic courses (18 credits), 4 clinical courses (3 credits), 12 practicum courses

### PhD Didactic Courses

Course	Title
Research Foundations in Communication Sciences and Disorders	
CSD 550-1	Research Foundations in Communication Sciences and Disorders (Scientific Thinking)
CSD 550-2	Research Foundations in Communication Sciences and Disorders (Experimental Design)
CSD 550-3	Research Foundations in Communication Sciences and Disorders (Scientific Communication)
Statistics	
CSD 404-1	Experimental Design and Statistics in Communication Sciences and Disorders (Not offered 2020/21. Students should take PSYCH 453-0 instead.)
CSD 404-2	Experimental Design and Statistics in Communication Sciences and Disorders (Not offered 2020/21. Students should take PSYCH 451-1 instead.)
Other Core Courses	
CSD 412-0	Scientific Writing
CSD 544-0	Responsible Conduct of Research in Communication Sciences and Disorders
CSD 545-0	Seminar: Professional Development
Content Courses (2 required, may be fulfilled with AuD didactic courses)	
Topic Seminars (2 required, 1 of which may be fulfilled with an AuD didactic course)	

### PhD Research Courses

Course	Title
Laboratory Experiences	
CSD 552-1	Laboratory Experiences in Communication Sciences and Disorders
CSD 552-2	Laboratory Experiences in Communication Sciences and Disorders
CSD 552-3	Laboratory Experiences in Communication Sciences and Disorders
Independent Study (related to Qualifying Research Project)	
CSD 499-0	Independent Study (for 3 quarters)

### AuD Didactic Courses

Course	Title
CSD 302-0	Anatomy and Physiology of the Peripheral Hearing Mechanism
CSD 306-0	Psychoacoustics
CSD 406-0	Medical Aspects of Audiology

CSD 407-0	Implantable Devices
CSD 408-1	Business Practices in Audiology
CSD 408-2	Business in Audiology
CSD 411-0	Evaluation and Use of Amplification Systems
CSD 414-0	Amplification Systems II
CSD 419-0	Pediatric Audiology
CSD 420-0	Pathologies of the Auditory System
CSD 422-0	Anatomy and Physiology of the Central Hearing Mechanism
CSD 423-0	Evaluation of the Peripheral Hearing Mechanism
CSD 424-0	Central Auditory Processing Disorders
CSD 425-0	Electrophysiology of the Human Auditory System
CSD 427-0	Otoacoustic Emissions: Theory and Practice
CSD 428-0	Fundamentals of Vestibular Science
CSD 429-0	Evaluation and Treatment of Balance Disorders
CSD 519-0	Pediatric Amplification and Educational Audiology
CSD 522-0	Hearing Loss Prevention and Conservation
CSD 523-0	Assessment and Management of Tinnitus and Sound Tolerance Issues

### AuD Clinical Courses

Course	Title
Leadership	
CSD 409-3	Foundations of Clinical and Professional Practice (Integration)
CSD 409-5	Foundations of Clinical and Professional Practice (Supervision and Counseling)
CSD 409-6	Foundations of Clinical and Professional Practice (Ethics and Counseling)
CSD 409-7	Foundations of Clinical and Professional Practice (Alternative Delivery Models and Counseling)

### AuD Practicum Courses

Course	Title
CSD 415-1	Clinical Practicum in Audiology
CSD 415-2	Clinical Practicum in Audiology
CSD 415-3	Clinical Practicum in Audiology
CSD 415-4	Clinical Practicum in Audiology
CSD 415-5	Clinical Practicum in Audiology
CSD 415-6	Clinical Practicum in Audiology
CSD 415-7	Clinical Practicum in Audiology
CSD 415-8	Clinical Practicum in Audiology
CSD 580-1	Clinical Externship
CSD 580-2	Clinical Externship
CSD 580-3	Clinical Externship
CSD 580-4	Clinical Externship

### Other PhD Degree Requirements

- **Attendance at Scientific Lectures:** four scientific lectures per quarter
- **Non-Course Assignments:** teaching assistantships and/or research assistantships
- **Research Presentations:** oral presentation of ongoing work at Annual Doctoral Student Research Presentation Days
- **Qualifying Research Project (QRP):** a minimum of three quarters of independent study; proposal, paper, exam, and defense
- **Doctoral Dissertation:** prospectus and prospectus meeting prior to conducting dissertation research project; paper and defense at the conclusion of the dissertation research project

For details on PhD in CSD degree requirements, please refer to the program handbook (<https://phdcsd.northwestern.edu/program/>). (<http://www.communication.northwestern.edu/sites/default/files/phd-csd/handbook.pdf>)

### **Other AuD Degree Requirements**

- **Written qualifying exam:** assessment of clinical knowledge base
- **Practical exams:** assessment of hands-on clinical skills
- **Written comprehensive exam:** assessment of knowledge of clinical integration and evidence-based practice
- **Full-time clinical placement:** registration in CSD 580-1 Clinical Externship, CSD 580-2 Clinical Externship, CSD 580-3 Clinical Externship, and CSD 580-4 Clinical Externship

### **Simultaneous Award of PhD and AuD**

Students will receive both the PhD and AuD degrees simultaneously after all of the requirements for both degrees are complete. Students who leave the program early will receive the non-clinical Master's degree in Communication Sciences and Disorders (MA), as deemed appropriate by their progress, following current practice in the PhD program.