

# Communication Sciences and Disorders

<http://www.und.edu/dept/cdis/index.html>

FACULTY: Cummings, Foley, Madden, Paulson, Rami (Graduate Director & Chair), Robinson, Seddoh, Steen, Swisher, Weisz, and Wocken

## Degrees Granted: Master of Science (M.S.) and Doctor of Philosophy (Ph.D.)

The Department of Communication Sciences and Disorders offers graduate programs leading to the Master of Science in Communication Sciences and Disorders.

The master's degree program is accredited by the Council on Academic Accreditation in Speech-Language Pathology and Audiology. A graduate degree is required for students planning a career in speech-language pathology and audiology. It is anticipated that graduates with a master's degree will meet the academic and practicum requirements for the Certificate of Clinical Competence of the Boards of Examiners in Speech-Language Pathology and Audiology. The Master of Science degree with thesis or without thesis is available with a major emphasis in Speech-Language Pathology and with supporting work in Audiology.

Details pertaining to admission requirements, degree requirements and courses offered can be found in the Degree section.

## Master of Science (M.S.)

### Mission Statement and Program Goals

The larger mission of the Department of Communication Sciences and Disorders (CSD) is to provide its students with a liberal arts education through the College of Arts and Sciences, including instruction in the arts and sciences, communication skills, habits of independent thought, and the understanding of diverse cultures. The specific mission of CSD is to provide academic and clinical instruction, supervised clinical practical, and research experience for students that will lead to state, regional and national accreditation and licensing; to provide clinical services to individuals, groups and agencies within the University and the greater Grand Forks area; to provide professional leadership in local, state, and national organizations; to contribute to the body of knowledge concerning communication sciences and communication disorders; and to serve the University through participation in its governance. This mission is directed at meeting the interests and needs of the University of North Dakota constituency.

## Master of Science (M.S.)

### Admission Requirements

The applicant must meet the School of Graduate Studies' current minimum general admission requirements as published in the graduate catalog.

1. Graduate Record Examination—General Test.
2. Overall undergraduate GPA of at least 2.75 and a 3.00 in the courses required for an undergraduate major in Communication Sciences Disorders.
3. Admittance to approved status typically requires an undergraduate major in Communication Sciences Disorders.
4. Those admitted to Qualified Status must have at least 12 semester credits of undergraduate work in the field, but will be required to complete the coursework for the undergraduate major.
5. Criteria used in admission decisions:
  - a. Scores on the Graduate Record Examination General test;
  - b. All grade point averages from previous undergraduate, post-baccalaureate and graduate studies;
  - c. The extent and quality of previous clinical, research, and service activities; and

- d. Quality of speaking, writing, and interpersonal skills.
6. Applicants should include documentation of their qualifications relative to the criteria above.
  7. Admissions for summer and fall enrollment and the award of financial aid will be based on applications completed by January 15.
  8. Satisfy the School of Graduate Studies' English Language Proficiency requirements as published in the graduate catalog.

## Degree Requirements

Students seeking the Master of Science degree at the University of North Dakota must satisfy all general requirements set forth by the School of Graduate Studies as well as particular requirements set forth by the Communication Sciences and Disorders Department.

Thesis Option:

1. A minimum of 30 semester credits in a major field, including the credits granted for the thesis and the research leading to the thesis.
  2. At least one-half of the credits must be at or above the 500-level.
  3. A maximum of one-fourth of the credit hours required for the degree may be transferred from another institution.
  4. Required CSD Courses:
- |                            |   |      |
|----------------------------|---|------|
| 5. CSD 525                 | Introduction to Research in Speech-Language Pathology and Audiology | 3    |
| CSD 530                    | Audiology for SLPs  | 1    |
| CSD 532                    | Neurogenic Communication Disorders I                                | 3    |
| CSD 533                    | Investigations in Child Language                                    | 3    |
| CSD 534                    | Advanced Management of Articulation and Phonological Disorders      | 2    |
| CSD 536                    | Stuttering Intervention   | 2    |
| CSD 538                    | Management of Phonatory Disorders                                   | 3    |
| CSD 542                    | Neurogenic Communication Disorders II                               | 3    |
| CSD 550                    | Motor Speech Disorders  | 2    |
| CSD 551                    | Dysphagia   | 2    |
| CSD 583                    | Evaluation and Service Delivery                                     | 3    |
| CSD 584                    | Advanced Clinical Practicum   | 1-16 |
| CSD 572                    | Neurogenic Communication Disorders IV                               | 3    |
| <b>Scholarly Tools</b>     |   |      |
| EFR 515                    | Statistics I  | 3    |
| <b>School Practicum</b>    |   |      |
| CSD 585                    | Practicum in the School Setting                                     | 10   |
| <b>Electives</b>           |   |      |
| CSD 595                    | Research Problems in Speech-Language Pathology-Audiology            | 1-3  |
| CSD 597                    | Special Problems in Communication Disorders                         | 1-3  |
| <b>Thesis</b>              |   |      |
| CSD 998                    | Thesis  | 4    |
| <b>Total Credits 51-70</b> |   |      |

Non-Thesis Option:

1. Thirty-two (32) credits including credits required for the major.
  2. A minimum of two credits of Independent Study.
  3. At least one-half of the credits must be at or above the 500-level.
  4. A maximum of one-fourth of the credit hours required for the degree may be transferred from another institution.
  5. Preparation of a written independent study approved by the faculty advisor.
  6. Satisfactory performance on a comprehensive final examination.
  7. Required CSD Courses:
- |            |   |   |
|------------|---|---|
| 8. CSD 525 | Introduction to Research in Speech-Language Pathology and Audiology | 3 |
| CSD 530    | Audiology for SLPs  | 1 |
| CSD 532    | Neurogenic Communication Disorders I                                | 3 |
| CSD 533    | Investigations in Child Language                                    | 3 |

CSD 534	Advanced Management of Articulation and Phonological Disorders	2
CSD 536	Stuttering Intervention	2
CSD 538	Management of Phonatory Disorders	3
CSD 542	Neurogenic Communication Disorders II	3
CSD 550	Motor Speech Disorders	2
CSD 551	Dysphagia	2
CSD 583	Evaluation and Service Delivery	3
CSD 584	Advanced Clinical Practicum	1-16
CSD 572	Neurogenic Communication Disorders IV	3
<b>Scholarly Tools</b>		
EFR 515	Statistics I	3
<b>School Practicum</b>		
CSD 585	Practicum in the School Setting	10
<b>Electives</b>		
CSD 595	Research Problems in Speech-Language Pathology-Audiology	1-3
CSD 597	Special Problems in Communication Disorders	1-3
<b>Independent Study</b>		
CSD 997	Independent Study	2
<b>Total Credits 49-68</b>		

Students wishing to qualify for employment in a school setting must complete requirements for a teaching credential as a graduate student. These include , School Program in CSD, and . Students must also take the Praxis I Teacher Certification Examination.

Graduate Students already having a teaching credential with some other major must take T&L 400 Methods and Materials and practicum in a school before being recommended for employment in a school.

## Doctor of Philosophy (Ph.D.)

### Admission Requirements

The applicant must meet the School of Graduate Studies' current minimum general admission requirements as published in the graduate catalog.

1. A master's degree in communication sciences and disorders, speech-language pathology, audiology, speech and hearing science, or a related field.
2. Graduate Record Examination-General Test.
3. An overall grade point average of 3.0, on a 4.0 scale, in graduate coursework in speech-language pathology, audiology, or a related area.
4. Criteria used in admission decisions:
  - a. Scores on the Graduate Record Examination General Test;
  - b. All grade point averages from previous undergraduate, post-baccalaureate and graduate studies;
  - c. The extent and quality of previous clinical, research, and service activities; and
  - d. Quality of speaking, writing and interpersonal skills.
5. Applicants should include documentation of their qualifications relative to the criteria above.
6. Satisfy the School of Graduate Studies' English Language Proficiency requirements as published in the graduate catalog.
7. Applications must be submitted by February 1 to be considered for financial aid for the following fall semester.

### Degree Requirements

Students seeking the Doctor of Philosophy degree at the University of North Dakota must satisfy all general requirements set forth by the School of Graduate Studies as well as particular requirements set forth by the Communication Sciences and Disorders Department.

1. Completion of 90 semester credits beyond the baccalaureate degree.
2. Maintenance of at least a 3.0 GPA for all classes completed as a graduate student.

3. Completion of a dissertation, which incorporates independent work that is an original contribution to knowledge.
4. With approval of a student's Faculty Advisory Committee, up to one-half of the work beyond a master's degree may be transferred from another institution.
5. At least one-half of the work must be in the major field.
6. Successful completion of a comprehensive examination.
7. Required Courses:

#### 8. Seminars

CSD 501	Seminar in Speech-Language Pathology and Audiology	12
Special Problems in CSD		
CSD 597	Special Problems in Communication Disorders	9
Scholarly Tools		
PSYC 541	Advanced Univariate Statistics	3
PSYC 543	Experimental Design	3
EFR 518	Multivariate Analysis	3
CSD 592	Research Design in Speech and Hearing Sciences	3
<b>Research</b>		
CSD 595	Research Problems in Speech-Language Pathology-Audiology	8
Cognate		
		9
<b>Dissertation</b>		
CSD 999	Dissertation	10
Total Credits		60

The Doctor of Philosophy degree in Communication Sciences & Disorders is a research degree and is conferred only in recognition of high achievement in independent scientific research and scholarship. This research is expected to make a significant contribution to the student's chosen area of study.

Students will enter holding a Master's degree in Speech Pathology, Audiology, or Speech and Hearing Science. Students without this degree or equivalent coursework will be required to complete a core curriculum of the following eight courses currently offered at the Master's level:

CSD 530	Audiology for SLPs	1
CSD 532	Neurogenic Communication Disorders I	3
CSD 533	Investigations in Child Language	3
CSD 536	Stuttering Intervention	2
CSD 538	Management of Phonatory Disorders	3
CSD 542	Neurogenic Communication Disorders II	3

### Courses

#### CSD 501. Seminar in Speech-Language Pathology and Audiology. 1-3 Credits.

A study of the application of current and emerging data in the area of clinical assessment and management of speech disorders, language disorders, or disorders of hearing, in children and adults with communication impairments. May be repeated as topics change. Prerequisite: Consent of instructor. Repeatable.

#### CSD 525. Introduction to Research in Speech-Language Pathology and Audiology. 3 Credits.

Research methods in Speech-Language Pathology and Audiology. Steps in research before data analysis is undertaken. Culminates in a research proposal.

#### CSD 530. Audiology for SLPs. 1 Credit.

Diagnosis and management of auditory disorders. Prerequisites: CSD 431 and CSD 434. F,SS.

#### CSD 532. Neurogenic Communication Disorders I. 3 Credits.

Study of the representation or organization of language in the human brain as determined by multidisciplinary techniques such as neuroimaging, electrical stimulation mapping, etc. Includes aphasia and communication disturbance in adults following traumatic injury to the brain, and also clinical management. Prerequisites: CSD 231 and CSD 422.

**CSD 533. Investigations in Child Language. 3 Credits.**

Student formulation of questions and concerns about normal and disordered child language which are studied through a search of pertinent literature and through observation and analysis of children's linguistic production. Prerequisites: CSD 343.

**CSD 534. Advanced Management of Articulation and Phonological Disorders. 2 Credits.**

Advanced knowledge of articulation and phonological disorders; skills needed to assess and treat individuals with these disorders. Emphasis on childhood apraxia, velopharyngeal disorders, cognitive disorders, hearing loss, tongue thrust, dialectal differences, dysarthrias in children, and phonemic disorders concurrent with language disorders. Prerequisites: CSD 333 or equivalent.

**CSD 536. Stuttering Intervention. 2 Credits.**

A study of the theoretical bases for and the clinical management of stuttering in children and adults.

**CSD 538. Management of Phonatory Disorders. 3 Credits.**

A study of the diagnosis and management of functional and organic voice disorders in children and adults.

**CSD 542. Neurogenic Communication Disorders II. 3 Credits.**

Assessment and intervention strategies for children with traumatic brain injury, cerebral palsy, fetal alcohol syndrome and developmental apraxia. Includes evaluation for and application of augmentative and alternative communication devices.

**CSD 550. Motor Speech Disorders. 2 Credits.**

The study of control and damage of speech production related to neurological diseases and lesions. Includes assessment and intervention strategies for adults with motor speech disorders such as dysarthria and apraxia of speech. Prerequisites: CSD 532 and CSD 542. SS.

**CSD 551. Dysphagia. 2 Credits.**

The study of normal and abnormal swallowing, swallowing disorders in children and adults including assessment and intervention strategies. Prerequisites: CSD 532 and CSD 542. F.

**CSD 553. Swallowing Disorders. 2 Credits.**

Prerequisites: CSD 422 and CSD 542; or equivalents.

**CSD 572. Neurogenic Communication Disorders IV. 3 Credits.**

A study of cognitive and communication deficits that accompany right hemisphere damage, as well as traumatic brain injury, their diagnosis and management. Prerequisites: CSD 422 and CSD 532.

**CSD 580. Interprofessional Health Care. 1 Credit.**

The purpose of the course is to learn to work effectively in an interdisciplinary health care team, using a shared patient-centered approach. Students work with other team members from physical therapy, nursing, occupational therapy, medicine, social work, clinical lab science, and dietetics. Case studies using problem-based learning techniques are the primary teaching strategy. S/U grading.

**CSD 583. Evaluation and Service Delivery. 3 Credits.**

The study of: 1) the underlying principles and philosophies of evaluation in speech-language pathology, including interviewing, administering and interpreting diagnostic tests and protocols, and client counseling; and 2) the concepts and principles of service delivery including creative problem solving, decision making, collaboration, and management of services.

**CSD 584. Advanced Clinical Practicum. 1-16 Credits.**

Provision of clinical services to individuals with communication disorders under the supervision of an ASHA certified supervisor. Placement will be the UND Speech-Language-Hearing Clinic or a departmentally-approved external site. Prerequisites: CSD 485 and consent of instructor. Repeatable.

**CSD 585. Practicum in the School Setting. 10 Credits.**

Supervised practicum in a University-approved cooperating school. Prerequisites: Graduate standing and consent of department.

**CSD 586. Advanced Clinical Practicum: Audiology. 1-16 Credits.**

The administration and interpretation of tests and procedures for evaluation of human auditory functioning; practice involving interviews, case histories and client counseling.

**CSD 592. Research Design in Speech and Hearing Sciences. 3 Credits.**

The use of speech science instrumentation and data collection and analysis in human speech, language and hearing. Prerequisites: CSD 541 and 543.

**CSD 595. Research Problems in Speech-Language Pathology-Audiology. 1-3 Credits.**

A. Speech-Language Pathology, B. Audiology. Prerequisite: Consent of instructor. Repeatable.

**CSD 597. Special Problems in Communication Disorders. 1-3 Credits.**

An examination of special topics in communication disorders. Prerequisite: Consent of instructor. Repeatable.

**CSD 996. Continuing Enrollment. 1-12 Credits.**

Repeatable. S/U grading.

**CSD 997. Independent Study. 2 Credits.****CSD 998. Thesis. 1-9 Credits.**

Repeatable to 9 credits.

**CSD 999. Dissertation. 1-12 Credits.**

Repeatable to 18 credits.

## Undergraduate Courses for Graduate Credit

**CSD 343. Language Development. 3-4 Credits.**

The nature and development of linguistic content, form, and use from birth to adulthood are studied relative to the development of communication and speech; relative to cognitive, social, and physical development; and relative to cultural diversity. Prerequisites or Corequisites: ENGL 209, PSYC 241 and PSYC 250 and CSD 340; or equivalents. F.

**CSD 431. Introduction to Audiology. 3 Credits.**

Elementary structure and function of the hearing mechanism; basic psychophysical dimensions of the auditory mechanism; types of deficient hearing; pure tone threshold and screening audiometry. Students are required to do hearing testing to qualify for certification in speech and hearing. Prerequisites: CSD 231 and CSD 235, and MATH 103. F.

**CSD 434. Aural Rehabilitation. 3 Credits.**

Principles, techniques and clinical practice in the diagnosis and rehabilitation of hearing disorders in children and adults; auditory training, speech reading and hearing conservation. Prerequisites: CSD 431 and CSD 343, or consent of instructor. S.

**CSD 497. Special Problems in Communication Disorders. 1-3 Credits.**

An examination of special topics in Communication Disorders. Prerequisite: Consent of instructor. Repeatable. On demand.