

DOCTORAL CURRICULUM GUIDE
DEPARTMENT OF SPEECH AND HEARING SCIENCES
UNIVERSITY OF WASHINGTON

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Philosophy and objectives

The doctoral program is designed for students interested in research in the discipline of communication sciences and disorders, whether basic or applied, to be implemented in university, clinical or industrial settings. The major objective of doctoral training is to give students the background and skills necessary to be successful in research and in teaching. Specifically, students should acquire knowledge and appreciation for the content of the field as well as skills in critical thinking, problem solving, and communication. They should develop the technical expertise necessary to support their research and teaching endeavors. They should develop a sense of membership in and contribution to the discipline. The means by which these objectives can be met are varied. They include supervised research and teaching, interactions with a mentor and other colleagues, didactic course work, seminars, directed readings, examinations, and colloquia.

Admission to the program

The doctoral program is organized around an apprenticeship model with strong mentoring. Students will only be admitted to the program if there is an identified advisor, within the Department of Speech and Hearing Sciences, who is willing to direct the student's program. In some cases, a student's research may be supervised by a faculty member whose primary appointment is in another department; however, the student must still have an advisor whose primary appointment is in the Department. It is recommended that applicants contact the potential mentor/advisor prior to application. Students will be admitted to the doctoral program with either a Bachelor's or Master's degree, depending on area of interest. Obtaining the Master's degree is not a requirement of the doctoral program.

Program requirements

The Graduate School establishes minimum requirements that must be met by all students for the doctoral degree. These are detailed in the UW General Catalog.

Upon admission to the program, the student is assigned an Advisory Committee consisting of the advisor and another faculty member from the Department of Speech and Hearing Sciences. This committee is responsible for helping the student plan the initial program of study, including course work, predissertation research and teaching plan.

Research requirements

1. The student must be involved in **supervised research** by the end of the first year in the program. It is expected that this involvement will be reflected in registration for research hours. SPHSC 600 Independent Study is the course for which students should register to receive credit for supervised research.

SPHSC 600 MAY BE GRADED ON THE NUMERICAL SCALE OR ON A CR/NC BASIS. GRADING MAY BE DELAYED UNTIL THE COMPLETION OF THE PROJECT BY ASSIGNING AN "N" GRADE.

2. Registration for **SPHSC 567 Research Seminar in Speech and Hearing Sciences** (1 cr) is required each quarter. Students with schedule conflicts must obtain the advisor's permission to waive the requirement on a quarter by quarter basis.

3. All doctoral students are expected to attend the **department colloquia**, in which faculty, students, and visiting colleagues present their research.

4. A **predissertation research project** must be completed, usually by the end of the second year of study. The student must obtain approval of the predissertation project proposal (a written document of approximately ten pages) from the Advisory (or Supervisory) Committee. The student is required to carry out the project and to present the results of the project at the department's annual Graduate Student Research Forum. The final product must be approved by the Advisory (or Supervisory) Committee. The expectation is that the predissertation project will produce a publishable paper for most students.

5. Students are required to demonstrate **technical expertise in instrumentation and computing** appropriate to the area of interest.

6. A **doctoral supervisory committee** consisting of a minimum of three members must be established with the help of the advisor at least 4 months prior to the General Examination, but typically as soon as the student's research interests have taken shape, around the end of the second year of study (see UW catalog, page 45). The student's Speech and Hearing Sciences advisor must be the chair of the Supervisory Committee.

7. Near the end of the major portion of the academic training and pre-dissertation research experience (after approximately two years of study), the student will take a **General Examination** designed to focus in depth on major and minor topics within the chosen area of concentration (see UW catalog, page 45). The format of the written portion will be prepared and evaluated by members of the Supervisory Committee. The oral portion of the General Examination follows the written examination and is conducted by the same examining committee. The warrant request for this examination must be submitted to the Graduate School at least three weeks prior to the exam. Successful performance on the General Examination is judged by the committee from the student's responses on both the written and oral portions.

8. The final requirement is to complete a **dissertation**. The student must submit a dissertation proposal for approval, and complete and defend the dissertation (see UW catalog, page 45) . Students present a colloquium to the department on the dissertation research as part of this process.

9. Students participation in research should be evaluated at least once a year. Students may obtain from the Graduate Program Assistant a form entitled “Evaluation of Student Research Participation.” This form should be completed in duplicate by the student’s research mentor: one copy to the student, one copy for the student file of the advisor.

Teaching requirements

1. The student, in consultation with the advisor, will **develop and carry out a plan to obtain teaching experience** appropriate to planned future employment. This plan will be approved by the Advisory Committee. Appropriate teaching experiences include co-teaching a course, working as a teaching assistant, making presentations, and giving occasional lectures.

2. The student will register for **SPHSC 563 Instructional Development Forum** (IDF, 1 cr) for three quarters. This course is designed to focus on teaching issues as they relate to instructors of courses in speech and hearing sciences. The course content includes instructional techniques, instructional issues, and the relationship between research and teaching in speech, language and hearing sciences. Students might plan to register for IDF when they are working as a teaching assistant or co-teaching a course, if possible. IDF is offered in alternate years. The Department’s Lead Teaching Assistant and the University’s Center for Instructional Development and Research are also available to graduate students for consultation.

3. *Students intending to pursue an academic career* will likely co-teach a class with a faculty member for at least one quarter. The student will register for **SPHSC 564 Teaching Practicum** (variable credit) to receive credit for this activity. "Co-teaching" means that the student gives approximately 25% of the lectures in the course, establishes office hours for students, and is involved in the evaluation (i.e., testing and grading) of students. The student’s teaching must be observed and evaluated by the faculty member with whom the student is co-teaching. The student is responsible for finding a course to co-teach. The faculty may make a list of potential co-teaching opportunities available to students.

4. Students should have all teaching experience evaluated. Students may obtain from the Graduate Program Assistant a form entitled “Evaluation of Doctoral Student Teaching Participation.” This form should be completed in duplicate by the appropriate faculty member: one copy to the student, one copy for the student file of the advisor.

Course requirements

1. *Students entering the program with a degree in a field other than Speech and Hearing Sciences* are expected to complete **undergraduate courses in speech science, language science, and hearing science, and one course in the area of communication disorders**, to obtain a basic understanding of the discipline. This requirement can be met by courses taken at other institutions. Courses at the University of Washington that might be used to meet this

requirement include SPHSC 303 Language Science, SPHSC 320 Anatomy and Physiology of Speech, SPHSC 425 Speech, Language, and the Brain, SPHSC 461 Introduction to Hearing Science, SPHSC 305 Speech and Language Disorders, SPHSC 371 Hearing Disorders. The Advisory Committee must approve the student's choice of courses.

2. All students must take a **three-quarter introductory level doctoral course sequence**, offered every other year. Students should take the sequence in their first or second year of doctoral study. Students entering the program with a degree in a field other than Speech and Hearing Sciences should delay taking the sequence until undergraduate course requirements have been completed.

SPHSC 560 Studies in Speech Science and Disorders (3 cr)

SPHSC 561 Studies in Hearing Science and Disorders (3 cr)

SPHSC 562 Studies in Language Science and Disorders (3 cr)

THE SEQUENCE IS DESIGNED TO ACQUAINT STUDENTS WITH CURRENT THEORIES AND ISSUES IN THE AREAS OF HEARING, LANGUAGE, AND SPEECH. THE INTENT IS TO GIVE STUDENTS A BROAD EXPOSURE TO THE DISCIPLINE AT THE DOCTORAL LEVEL. IN ADDITION, THE SEQUENCE PROVIDES STUDENTS AN OPPORTUNITY TO INTERACT WITH FACULTY MEMBERS AND STUDENTS FROM DIFFERENT INTEREST AREAS. SUCH INTERACTIONS NOT ONLY PROMOTE COLLEGIALLY, BUT EXPOSE STUDENTS TO A VARIETY OF PHILOSOPHIES AND TEACHING STYLES.

EACH COURSE IN THE SEQUENCE WILL COVER CURRENT TOPICS IN THE AREA IT COVERS, AS WELL AS OVERVIEW THE BACKGROUND MATERIAL NEEDED TO APPRECIATE THOSE TOPICS. EACH COURSE IS ORGANIZED AND TAUGHT BY ONE FACULTY MEMBER IN THE APPROPRIATE AREA ON A ROTATING BASIS. FACULTY IN THE APPROPRIATE AREA WILL DEVELOP A BROAD OUTLINE OF THE CONTENT OF EACH CORE SEMINAR TO ENSURE CONTINUITY FROM YEAR TO YEAR.

2. **SPHSC 504 Research Methods in Speech and Hearing Sciences (3 cr)**. Offered every year.

3. **Statistics**. Basic courses offered in Educational Psychology, Psychology or Biostatistics offered every year. A minimum of 2 courses as a doctoral student are required. The most popular series are EDPSY 592, 593, 594 and BIOST 511, 512, 513. Students select a series and advanced courses based on their interests and needs, in consultation with the advisor.

4. **SPHSC 568 Grant Writing in Hearing, Language and Speech Sciences (3 cr)**.

Prerequisites statistics, SPHSC 504 and completion of predissertation project; or permission of instructor. Offered every 2-3 years.

5. **The remainder of the student's course work** will be planned in consultation with the advisor and Advisory or Supervisory Committee. Students should develop a course plan, present it to their Advisory Committee, and have it approved during the first year of their program.

Please note: Students also are required to take SPHSC 563 and 567 as specified under Teaching Requirements and Research Requirements, respectively.

Courses Currently Offered at the Doctoral Level

SPHSC 503 Current Issues in Speech and Hearing Sciences
SPHSC 505 Clinical Research in Communication Disorders
SPHSC 510 Physiological Acoustics
SPHSC 511 Psychoacoustics
SPHSC 514 Speech Physiology
SPHSC 515 Speech Acoustics
SPHSC 516 Speech Perception
SPHSC 519 Seminar in Speech Science
SPHSC 525 Speech Signal Processing
SPHSC 540 Phonological Development
SPHSC 560 Studies in Speech Science and Disorders
SPHSC 561 Studies in Hearing Science and Disorders
SPHSC 562 Studies in Language Science and Disorders
SPHSC 563 Proseminar: Instructional Development Forum
SPHSC 566 Seminar in Speech-Language Development
SPHSC 567 Research Seminar in Speech and Hearing Sciences
SPHSC 568 Grant Writing in Hearing, Language and Speech Science
SPHSC 569 Seminar in Speech-Language Pathology
SPHSC 599 Research Practicum
SPHSC 600 Independent Study
SPHSC 800 Dissertation Research

Progress requirement

Students are required to make **satisfactory progress** through the doctoral program each quarter. The faculty regularly evaluates the progress made by each doctoral student, on the basis of the student's performance in required courses; the completion of research requirements, including contributions to the doctoral research seminar; and development as a teacher. The results of these evaluations will be communicated to the student by the Graduate Program Director. Students who are not making satisfactory progress must consult with the advisor to determine the appropriate course of action.

STUDENTS WILL BE EVALUATED ANNUALLY IN THE WINTER QUARTER BY THE ENTIRE FACULTY. STUDENTS WILL RECEIVE A SATISFACTORY ("1") OR UNSATISFACTORY ("0") EVALUATION. THE GRADUATE PROGRAM DIRECTOR WILL INSTRUCT STUDENTS WHO RECEIVE AN UNSATISFACTORY EVALUATION TO CONSULT WITH THEIR ADVISOR. THE ADVISOR IS RESPONSIBLE FOR SEEING THAT SUCH STUDENTS ARE FOLLOWED ON A QUARTERLY BASIS; THE FACULTY AS A WHOLE WILL REVIEW THE STUDENTS' PROGRESS EACH QUARTER.

Completion of doctoral study typically requires 4 years for students who enter the program with a Master's degree in Speech and Hearing Sciences. The time required to complete the doctorate will vary with the student's background and interests.