School of Behavioral and Brain Sciences

Doctoral Programs in Cognition and Neuroscience, Communication Sciences and Disorders, Psychological Sciences

Faculty


Professor Emeritus: Allen L. Rupert

Associate Professors: Francesca Filbey, Shayla C. Holub, Daniel Krawczyk, Mandy J. Maguire, Christa K. McIntyre, Candice M. Mills, Robert L. Rennaker II, Pamela R. Rollins, Bart Rypma, Lucien (Tres) Thompson

Assistant Professors: Robert Ackerman, Chandramallika Basak, Cindy M. De Frias, Kristen Kennedy, Sven Kröener, Jinkyung Na, Jackie Nelson, Jonathan E. Ploski, Karen Rodrigue, Raúl Rojas, Noah J. Sasson, Gagan Wig

Distinguished Scholar in Residence: James F. Jerger

Objectives

The School of Behavioral and Brain Sciences offers doctoral programs in Cognition and Neuroscience, Communication Sciences and Disorders, and Psychological Sciences. Each provides preparation in basic and applied aspects of behavioral and brain sciences. The faculty consists of specialists in developmental psychology, cognitive science, neuroscience, cognitive neuroscience, and communication sciences and disorders. Students may specialize in these areas or pursue study across areas as in the study of child language, aging, perception, and behavioral and neural plasticity. Core and specialized courses provide the foundation for advanced seminars and a wide spectrum of doctoral research in laboratories, schools, and clinics. Frequent colloquia and informal brown-bag seminars contribute to a stimulating environment for scholarly development.

Cognition and Neuroscience

The flexible, non-traditional doctoral program in Cognition and Neuroscience provides novel opportunities for multidisciplinary and cross-disciplinary studies in the areas of perception, memory, attention, and executive processing, cognitive neuroscience, cellular and systems neuroscience, cortical plasticity, and computational modeling of cognitive and neural processes. Close liaison with the UT Southwestern Medical Center provides access to first-class neuroimaging technologies and research populations. Students pursuing research in this program have the option of developing, in consultation with their doctoral advisor, a unique training program tailored to their specific research interests.

Communication Sciences and Disorders

The doctoral program in Communication Sciences and Disorders provides...
opportunities for graduate study and research in the areas of speech, language, and hearing science, and in the disorders that affect speech, language, and hearing. Students have available a wealth of research opportunities in laboratories, clinics, and schools, both on-campus and in the community. Close liaison with the UT Southwestern Medical Center provides patient access and numerous opportunities for research in medical settings. Coursework and research options within the doctoral programs in Psychological Sciences and Cognition and Neuroscience allow students to pursue interdisciplinary study in areas such as neuroimaging of language processes, child language, autism, neural plasticity and recovery, speech perception, auditory neuroscience and cognitive aging.

Psychological Sciences

The doctoral program in Psychological Sciences provides opportunities for study within the context of a traditional experimental psychology curriculum. The program also offers strong interdisciplinary linkages to other areas within the School of Behavioral and Brain Sciences, including cognitive neuroscience, behavioral neuroscience, and communication sciences and disorders. The primary goal of the program is to prepare research investigators for academic and applied settings either directly or indirectly related to the field of Experimental Psychology. Students work closely with one or more faculty members in a collegial mentoring relationship. Although all students complete a core curriculum comprised of coursework in areas such as Developmental Psychology, Cognition, and Social/Personality Psychology, the program allows students to individually tailor their studies in creative ways.

Facilities

The offices and research facilities of the School of Behavioral and Brain Sciences are located on the Richardson campus, and off-campus at the Callier Center for Communication Disorders-Dallas, the Center for BrainHealth, and the Center for Vital Longevity, which are adjacent to the campus of the UT Southwestern Medical Center at Dallas. Facilities on the Richardson campus include teaching and research laboratories for neuroscience, cognitive science, and facilities for the study of child development. The Center for Children and Families and Callier-Richardson provide a variety of clinical services to the community and serve as a research sites for graduate students. The Center for BrainHealth and the Center for Vital Longevity are the primary facilities for the study of cognitive neuroscience. The Center for BrainHealth includes research activities in the areas of aging and neurogenic disorders in children and adults. The Callier Center-Dallas has its primary focus on speech, language, and hearing, and includes research laboratories, clinical services, and classroom programs for preschool children. The Center for Vital Longevity includes research on how the body and mind can successfully age together and uses cutting-edge brain imaging technologies and advances in cognitive science to identify the "neural signature" of those at risk of not aging well and preventing problems before symptoms occur. Collaborative arrangements with the UT Southwestern Medical Center expand student research opportunities including access to its clinical populations and neuroimaging facilities. The Center for Children and Families, housed in the School for Behavioral and Brain Sciences, offers an array of clinical and community outreach activities organized around three initiatives: parenting healthy families, strengthening interpersonal relationships, and enhancing thinking and learning.
Admission Requirements

The University's general admission requirements are discussed on the Graduate Admission page (catalog.utdallas.edu/2013/graduate/admission). Admission to a doctoral program is based on a review of the applicant's transcripts, GRE scores, 3 letters of recommendation, and narrative description of research interests and career goals. In addition to academic requirements, the admissions committee weighs heavily the match between the applicant's research interests and the research areas available to students in the school. For information about faculty research interests, see our web pages at bbs.utdallas.edu. Applications for admission are due December 1. Students are accepted for the Fall semester only. Some courses in the graduate programs in Audiology, Applied Cognition and Neuroscience, Communication Disorders, Human Development and Early Childhood Disorders, and Psychological Sciences complement doctoral coursework and, upon a student's admission to the PhD program, can be applied toward the degree. Students should consult with the doctoral program head to determine which graduate courses can be applied to the PhD.

Combining a Clinical Master's (MS) or Doctorate (AuD) with the PhD

Students seeking clinical certification from the American Speech-Language-Hearing Association in Speech-Language Pathology or Audiology, in addition to the PhD, may combine the masters program in Communication Disorders (speech-language pathology) or doctoral program in Audiology with the PhD programs in Communication Sciences and Disorders, Cognition and Neuroscience, or Psychological Sciences. An individualized plan of study leads to both degrees. Students are separately admitted to each program and admission to one program does not assure admission to the other.

Degree Requirements

The University's general degree requirements are discussed on the Graduate Policies and Procedures page (catalog.utdallas.edu/2013/graduate/policies/policy). Students seeking the Doctor of Philosophy degree must complete 75 graduate hours.

Doctor of Philosophy in Cognition and Neuroscience

75 hours minimum beyond the baccalaureate degree

Doctoral Proseminar: 6 hours

- **HCS 6302** Issues in Behavioral and Brain Sciences - Part I
- **HCS 6303** Issues in Behavioral and Brain Sciences - Part II

Research Methods: 6 hours minimum

- **HCS 6312** Research Methods in Behavioral and Brain Sciences - Part I
- **HCS 6313** Research Methods in Behavioral and Brain Sciences - Part II

Cognition and Neuroscience Core Courses: 6 hours minimum

Students must take a minimum of one Cognition Core and one Neuroscience Core,
choosing from those listed below.

Cognition

- HCS 6330 Cognitive Science
- HCS 6395 Cognitive Psychology

Neuroscience

- HCS 6346 Systems Neuroscience
- HCS 6388 Functional Neuroanatomy

Advanced Electives: 9 hours minimum

In addition to completing the 6 semester credit hours core requirement, students take a minimum of 9 hours of advanced electives. Any HCS course may count as an advanced elective. This includes core courses (see above), though no course can be counted both as a core and an advanced elective for any single student. Advanced electives are selected by students with the concurrence of their research advisors based on the students' research foci. Depending on a student's background and dissertation research, additional advanced electives beyond the 9 hours minimum may be necessary.

Doctor of Philosophy in Communication Sciences and Disorders

75 hours minimum beyond the baccalaureate degree

Doctoral Proseminar: 6 hours

- HCS 6302 Issues in Behavioral and Brain Sciences - Part I
- HCS 6303 Issues in Behavioral and Brain Sciences - Part II

Research Methods: 9 hours minimum

- HCS 6312 Research Methods in Behavioral and Brain Sciences - Part I
- HCS 6313 Research Methods in Behavioral and Brain Sciences - Part II
- Other Approved Advanced Research Methods course or Statistics course

Major Core Courses: 6 hours minimum

Students must complete a minimum of 6 semester credit hours of approved COMD or AUD prefixed courses. Courses meeting this requirement will vary depending on the student's research interests. The requirement may be waived for students holding a graduate degree in the field of speech-language pathology or audiology. Students lacking an adequate foundation in communication sciences may be required to complete more than the 6 hours minimum of core coursework.

Communication Sciences and Disorders: 3 hours minimum
All students must complete a minimum of 3 hours of doctoral coursework offered through the PhD program in Communication Sciences and Disorders.

Supplemental Coursework: 12 hours minimum
All students must complete an additional minimum of 12 hours of doctoral level courses and seminars. Courses may be selected from doctoral level coursework offered through the PhD programs in Communication Sciences and Disorders or, with advisor approval, from the doctoral coursework offered through the PhD programs in Cognition and Neuroscience and Psychological Sciences.

Doctor of Philosophy in Psychological Sciences
75 hours minimum beyond the baccalaureate degree

Doctoral Proseminar: 6 hours
HCS 6302 Issues in Behavioral and Brain Sciences - Part I
HCS 6303 Issues in Behavioral and Brain Sciences - Part II

Research Methods: 6 hours minimum
HCS 6312 Research Methods in Behavioral and Brain Sciences - Part I
HCS 6313 Research Methods in Behavioral and Brain Sciences - Part II

Psychological Science Core Courses: 12 hours minimum
Students will declare a major in Developmental Psychology, Cognition, Social/Personality Psychology, or Neuroscience. Students must take four core courses from those listed below. Two of these courses must be selected from the major area, and the four courses must be selected from at least two of the four areas listed.

Developmental Psychology
HCS 6350 Social Development
HCS 6331 Cognitive Development
HCS 6368 Language Development

Cognition
HCS 6395 Cognitive Psychology
HCS 6330 Cognitive Science
HCS 6333 Memory

Social/Personality Psychology
HCS 6376 Social Psychology
**HCS 6327** Personality

**Neuroscience**
- **HCS 6346** Systems Neuroscience
- **HCS 6388** Functional Neuroanatomy

**Advanced Electives: 9 hours minimum**
After completing the 12 hours core requirements, students will take an additional 9 hours of advanced electives. Any core course (see above) may count as an advanced elective, though it cannot count both as a core course and as an elective. One of these 3-hour elective courses must be an advanced research methods course. Students will declare a major in Developmental Psychology, Cognition, or Social/Personality Development and will take a minimum of four courses (cores and electives) in the major area. Students may enroll in other advanced electives from the other doctoral course offerings available in the School, including courses in language and communication. Additional advanced electives are available each semester.

**Additional Requirements**
- All students must complete the Qualifying Project/Qualifying Paper requirements of the PhD degree sought. The successful defense of a written dissertation completes the requirements for the degree.

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