School of Behavioral and Brain Sciences
Master of Science in Applied Cognition and Neuroscience

Curriculum
The Master of Science in Applied Cognition and Neuroscience (ACN) program is an applied multidisciplinary program that incorporates and integrates methodologies from such diverse fields as psychology, neuroscience, computer science and philosophy. Students in this program may choose to specialize in one of the following areas: cognition and neuroscience, neuroscience, computational modeling/intelligent systems, human-computer interactions and neurological diagnosis and monitoring.

Career Options
Career preparation opportunities include but are not limited to the following areas: Experimental Neuroscience; Experimental Psychology; Cognitive-Neuroscience; Artificial Intelligence and Machine Learning; Usability Engineering; Intraoperative Neurophysiological Monitoring; and Brain Imaging Technology. In addition, the ACN degree provides excellent preparation for both doctoral work in cognition and neuroscience and medical school. Please note preparation for one or more of the above careers is dependent upon the specific curriculum specialization area chosen by the student within the ACN program.

Degree Program
The MS in Applied Cognition and Neuroscience requires the completion of a minimum of 36 semester credit hours.

For complete admission and degree requirements, view the Graduate Catalog at catalog.utdallas.edu.
The School of Behavioral and Brain Sciences is focused on the intersection of mind, brain and behavior. Through the school’s research-intensive culture, our professors and students work together to unravel mysteries that will improve human lives. They accomplish this by engaging in novel scientific discovery, translating the latest research into treatments, and sharing this knowledge through professional and community outreach. The School provides innovative training and research, offering an array of programs to develop creative thinkers. Graduate training in BBS prepares students to become scientists, educators, clinicians, social service professionals, innovators, and corporate leaders.

Graduate Research
The School of Behavioral and Brain Sciences is committed to translating the latest research into interventions that add depth to education and provide valuable contributions to the health and well-being of humans. BBS researchers in neuroscience, psychology, and speech, language, and hearing sciences have many research grants from the most prestigious national funding agencies, including the National Institutes of Health and the National Science Foundation.

Research Programs
**Neuroscience.** This program focuses primarily on cell and circuit plasticity in the nervous system and how this influences behavior. Major research strengths are in learning and memory; targeted plasticity for therapeutic intervention; and sensory neurobiology and pain.

**Speech, Language, and Hearing Sciences.** Based at the Callier Center for Communication Disorders, this program emphasizes clinical and translational research training in speech, language, and hearing, and in all disorders that affect the ability of children and adults to communicate. Research strengths broadly encompass basic science, applied (translational) applications, prevention, and remediation.

**Psychology.** Research focus on all aspects of cognitive, developmental, and social psychology, and cognitive neuroscience. Areas of expertise include learning and memory; reasoning; perception; modeling; lifespan development (from early childhood through the oldest old); and brain disease (e.g., autism, schizophrenia, traumatic injury, neurodegeneration, addiction).

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<th>BBS Graduate Programs</th>
<th>Level</th>
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<tr>
<td>Applied Cognition and Neuroscience</td>
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<td>Audiology</td>
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<td>Cognition and Neuroscience</td>
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<td>Speech-Language Pathology</td>
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<td>Human Development and Early Childhood Disorders</td>
<td>MS</td>
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<tr>
<td>Psychology</td>
<td>MS</td>
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Contact Information

**Office of Admission and Enrollment**
800 West Campbell Road
Richardson, TX 75080-3021
Phone: 972-883-2270 or 1-800-883-2443
Email: interest@utdallas.edu
Website: utdallas.edu/enroll

**School of Behavioral and Brain Sciences**
800 West Campbell Road GR41
Richardson, TX 75080-3021
Phone: 972-883-2491
Website: bbs.utdallas.edu
Research Centers
Many of the school’s activities are shaped significantly by faculty and student involvement in five centers listed below.

**Callier Center for Communication Disorders:** The Center is a national leader in providing care for children and adults with speech, language, and hearing disorders. Supporting this clinical mission, faculty members research the causes, treatments and prevention of communication disorders.

**Center for Advanced Pain Studies:** This Center’s mission is to elucidate fundamental mechanisms underlying chronic pain, and to discover novel therapeutics for the treatment of chronic pain through academic, public and private partnerships.

**Center for BrainHealth:** This Center focuses its research on understanding the brain’s ability to restore or protect healthy function, to protect the brain from unnecessary mental decline and to heal the brain through treatments that regenerate function.

**Center for Children and Families:** Center research emphasizes parenting and healthy families, strengthening interpersonal relationships, and enhancing thinking and learning.

**Center for Vital Longevity:** This Center focuses on understanding and expanding the capacity of the aging mind, aiming to understand how the brain changes over the lifespan, the consequences of neural aging on everyday function, and interventions that show promise for slowing cognitive aging.

**Texas Biomedical Device Center:** The Center consists of scientists, engineers, medical doctors, regulatory specialists, and clinicians committed to the development of affordable and innovative therapies and technologies to improve the quality of life for individuals suffering from neurological disorders.

Additional Facts about BBS
- Our Audiology and Speech-Language Pathology programs are ranked #2 and #10 in the nation respectively, according to *U.S. News and World Report*.
- The School is home to leading experts in Psychology, Neuroscience and Speech, Language, and Hearing Sciences.
- In fiscal year 2019, BBS faculty members were responsible for nearly $13 million in total research funding, including roughly $12 million from NIH, NSF, and DoD.
- BBS has more than 2,300 undergraduate students and nearly 600 graduate students, including two of the top 10 undergraduate majors at UTD (Neuroscience, Psychology).