Neuroscience is the multidisciplinary study of brain function. It examines the complex interactions of multiple neuronal systems that underlie the emergence and rich diversity of cognitive function and the regulation and expression of all forms of behavior, in humans and all other species.

The UT Dallas neuroscience program provides students with the opportunity to focus on the brain from multiple perspectives, beginning with our introduction to neuroscience course and moving on to coursework concentrating on cellular, neurophysiological, anatomical, developmental, pharmacological and molecular issues. It allows extensive interactions with neuroscientists, and encourages participation using the latest experimental methods in research laboratories. Additionally, students are encouraged to gain research experience by volunteering in faculty-led neuroscience labs on the UT Dallas campus.

**Careers in Neuroscience**

The neuroscience program is designed to prepare students for admission and advanced training in neuroscience graduate programs or in medical or dental schools, as well as for careers in related biomedical research, industry and allied health science fields. Graduates of our program are found nation- and world-wide, at prestigious universities, research institutions, hospitals and clinics.

Some of the biggest challenges in health care involve the nervous system. Students on pre-health career tracks majoring in Neuroscience receive an in-depth education on neurological disorders and their molecular and anatomical origins before entering professional school.

Research experience is an important component in many students’ future plans and is critical for those contemplating graduate, medical or dental school training. Individual investigators periodically accept students to work for research credit in their laboratories. The requirements are typically nine or more hours of previous neuroscience courses, a commitment to 10 hours per week for two or more semesters of lab work, and a convergence of research interests with the lab.

**Neuroscience at UT Dallas**

- The BS in neuroscience requires 120 hours to graduate: 42 hours from the University’s core curriculum, 45 hours in neuroscience courses, and 33 hours of electives and preparatory classes.
- The neuroscience minor requires 18 credit hours, with at least 12 hours of upper-division neuroscience core courses.
- Junior and senior cognitive science majors with at least a 2.5 GPA are eligible to receive college credit for a volunteer internship in the community.

** Marketable Skills**

Upon successful completion of the BS in Neuroscience, UT Dallas students will have a firm grasp of the fundamentals of the nervous system, including its cellular physiology, chemical communication mechanisms and functional anatomy.

- Students will understand the principles of the nervous system and be able to apply this knowledge in medical training or other professional training programs where advanced knowledge of the nervous system is required.
- Students will have training in scientific writing and scientific presentation skills, as well as a working knowledge of evaluation of the primary scientific literature.
- Students will understand how nervous system dysfunction relates to disease. This basic knowledge will help them in professional medical training, working in industry solving medical problems and/or in pursuit of a research career.
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. A large number of BBS undergraduates participate in hands-on research in our many scientific laboratories. Our research teams translate the latest research into treatments and share this knowledge through community outreach. The School provides innovative training and research, offering an array of programs to develop creative thinkers. Undergraduate training in BBS prepares students to enter graduate schools or the workplace, leading to successful careers in health, science, education, child and social services, innovation, and/or the business world.

BBS undergraduates enter many career pathways. In health, they study medicine, dentistry, physical therapy, speech-language pathology, audiology, clinical psychology, optometry, and many others. In science, they develop careers as investigators, technicians, clinical trial coordinators, and educators. Besides clinical and scientific careers, many other BBS alumni are leaders in social services, child interventions, technology development, human factors, software design, and many other fields.

Academic Departments

**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 provides students with hands-on scientific training and emphasizes clinically applied research training in speech, language, and hearing and in all disorders that affect the ability of children and adults to communicate.

**Psychology:** This department focuses on all aspects of cognitive, developmental, and social psychology, and cognitive neuroscience. Areas of expertise include brain imaging and measurement; 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).

Fast Tracks

The Fast-Track program enables undergraduate students to take up to 15 hours of graduate courses that will count toward both a bachelor’s degree and a master’s degree in applied cognition and neuroscience, speech-language pathology, or human development and early childhood disorders. Students must have at least 90 credit hours and meet the graduate admission requirements to qualify.

Undergraduate Programs

**Neuroscience: Multiple Tracks in the Undergraduate Major**

**Medical Neuroscience:** This track meets the overwhelming demand for advanced training in this growing department for students who wish to go on to professional education in health fields, such as medicine. This track has an emphasis on opportunities for disease-oriented course work and clinical translational research.

**Neuroscience Research:** This track emphasizes research in neuroscience with enhanced laboratory experiences to prepare students for a future as neuroscience researchers, such as through PhD programs.

**Industrial Track:** This track is focused on students whose goal is to advance neuroscience through business, entrepreneurial and/or therapeutic discoveries.

Contact Information

**Office of Admission and Enrollment**
800 West Campbell Road
Richardson, TX 75080-3021
Phone: 972-883-2270 or 1-800-889-2443
Email: interest@utdallas.edu
Website: utdallas.edu/enroll

**School of Behavioral and Brain Sciences**
The University of Texas at Dallas
800 West Campbell Road GR41
Richardson, TX 75080-3021
Fax: 972-883-2491
E-mail: bbs.undergraduate@utdallas.edu
Website: bbs.utdallas.edu

800 W Campbell Rd, Richardson, TX 75080
www.utdallas.edu
Psychology. Undergraduate Psychology Majors

Psychology: Training in psychology provides students with invaluable knowledge about human behavior, research methods, and data analysis that has applicability not only to careers and further study in psychology per se, but also to a wide variety of other occupations, including law, management, and medicine. Further advanced study can lead to professional careers in clinical areas, such as clinical psychology, counseling, or social work; industrial psychology; human factors engineering; and myriad other fields.

Child Learning and Development: This major prepares students for a wide range of careers in education, psychology, social work, family medicine, public health, family law, and public policy, among other areas. The major is especially well suited for students seeking elementary teacher certification. Students will develop a strong foundation in child development and accumulate teaching skills by combining a degree in child learning and development with an elementary teacher certification.

Speech, Language, and Hearing Sciences: Undergraduate Major

Audiology and Speech-Language Pathology: Education in communication sciences and disorders prepares students for advanced training and/or employment in this exciting field. Professions in speech-language pathology (SLP) and audiology are consistently ranked among the best careers for the changing job landscape. SLPs and audiologists are employed in a variety of school and healthcare settings, such as schools, clinics, and hospitals.

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 the National Institutes of Health, the National Science Foundation, and the Department of Defense.
• 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).