

BACHELOR OF  
SCIENCE



## NEUROSCIENCE

Neuroscientists examine the human brain and nervous system. Building from biology, biochemistry and psychology, neuroscience helps us understand how the brain works, how it can malfunction, and how brain and nervous system functions can change. Tiffin University's Neuroscience curriculum was built in conjunction and with support of four key members of the National Neuroscience Curriculum Initiative. The program places a strong emphasis on biology, biochemistry, and psychology coursework in addition to focused neuroscience courses. Students will gain a solid understanding of basic neuroanatomy and nervous system function on a molecular, cellular and systems level, and be able to describe the major areas of neuroscience with a clear understanding of the main research approaches. Students will study the scientific process of hypothesis generation and testing as it relates to the field of neuroscience, and be able to evaluate empirical research findings in terms of their theoretical basis, designs and methodologies.

Tiffin University's undergraduate neuroscience provides students with a broad range of career options upon graduation. Students will be qualified to work as a research assistant, laboratory technician, pharmaceutical sciences communicator and biostatistician, all jobs that offer a salary well above



the national median and are experiencing job growth anywhere between 160% and 210% of the national average, according to the Bureau of Labor Statistics.

The program is also an ideal course of study for students who wish to pursue graduate studies in neuroscience itself, as well as those who wish to enter medical school - especially with an eye towards neurology, neurosurgeon and psychiatric care. TU's neuroscience program covers some - but not all - premedical requirements. Students who wish to go to medical school must also take one year of physics, one year of organic chemistry, calculus, and select biochemistry as one of their electives, for a total of 20 additional credit hours. Students should verify admissions requirements in medical programs, prior to applying to those programs, in order to ensure they are meeting the curriculum requirements of that specific medical school.

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**Successful careers in the neuroscience field include:**

- Biostatistician
- Laboratory technician
- Pharmaceutical sciences communicator
- Research assistant

**Neuroscience Major: 56 hours**

- BIO210 General Biology I
- BIO210L General Biology I Lab
- BIO211 General Biology II
- BIO211L General Biology II Lab
- BIO311 Anatomy & Physiology I
- BIO311L Anatomy & Physiology I Lab
- BIO312 Anatomy & Physiology II
- BIO312L Anatomy & Physiology II Lab
- BIO333 Genetics
- BIO333L Genetics Lab
- CHM131 General Chemistry I
- CHM131L General Chemistry I Lab
- CHM132 General Chemistry II
- CHM132L General Chemistry II Lab
- CHM411 Biochemistry
- CHM441L Biochemistry Lab
- NAT291 Drugs & The Body
- NSC315 Neuroscience I: Neuroscience Foundations (RIZE\*)

- Neuroscience II: Biological Basis of Perception & Movement (RIZE\*)
- NSC335 Neuroscience III: Cognitive Neuroscience (RIZE\*)
- NSC415 Neuroscience IV: Clinical Neuropathology (RIZE\*)
- PSY101 Introduction to Psychology
- PSY362 Abnormal Psychology
- SCS300 Research Design

\*Tiffin University partners with RIZE, a higher education company that provides and shares innovative academic classes in high-demand majors, minors and certificates in the fastest-growing fields.