

Why should I major in neuroscience at HPU?

- The Bachelor of Science degree in Neuroscience has rigorous interdepartmental coursework that provides robust training for graduate education for a wide range of careers
- Innovative neuroscience courses include a laboratory component taught by the same professor who teaches the lecture
- Small class sizes permit in-depth discussion of primary literature and individualized attention. Students develop proficiency with oral presentations in upper-level courses
- Research opportunities and hands-on laboratory activities provide real-world preparation for future careers in healthcare, research, academics or policy
- All students contribute to a senior capstone course that includes evaluating and discussing cutting-edge topics in neuroscience

Research opportunities

In addition to the experiential learning associated with lab coursework, our faculty invite students to perform research in their own laboratories

Student researchers present their work at conferences and have earned numerous grants, internships and publications

All Neuroscience faculty at HPU hold a Ph.D. and perform research on a diversity of topics including:

- Axon growth and branching
- Developmental Neuroscience
- Molecular Neuroscience
- Neural Regeneration
- Neuroendocrine Insect Sensory Systems
- Stroke injury and repair



The brand new 128,000-square-foot Wanek School of Natural Sciences features four stories of innovative classroom space and cutting-edge laboratory equipment.

What can I do with this major?

A bachelor's degree in Neuroscience at HPU prepares you for a variety of career opportunities. Many students may wish to further specialize their education by pursuing advanced degrees. Below are some examples of career opportunities for students graduating with a B.S. in Neuroscience, as well as careers which well-prepare neuroscience students for additional studies and training experiences:

Health Fields

- Clinical Psychologist/Researcher
- Genetic Counselor
- Medical Doctor
- Medical Technician
- Nurse
- Nurse Practitioner/Physician Assistant
- Pharmacist
- Physical Therapist
- Speech Pathologist

Business, Law & Government

- Animal Lab Technician
- Forensic Science
- Lawyer
- Neuro-economics/Marketing
- Patent Law
- Pharmaceutical Sales
- Science Advocacy
- Science Blogger/Writer
- Work for NIH, CDC, FDA

Academia & Education

- College Professor
- High School Science Teacher
- Lab Technician/Research Assistant
- Research Scientist



Neuroscience Club

The HPU Neuroscience Club provides an opportunity for undergraduate students to connect, collaborate, learn and extend their knowledge and passion for the subject of Neuroscience. Although Neuroscience is predominantly a scientific discipline, its developments have very important impacts on other fields of study including but not limited to: Religion, Philosophy, Political Science and Economics. In addition hosting scientific speakers to campus and sponsoring a student trip to the National Institutes of Health, the interdisciplinary club also encourages camaraderie with activities such as field day, movies, and break-out rooms.

Holistic learning

An active academic calendar brings practicing scientists, recent graduates and other visiting lecturers to campus, organizes field trips and sponsors service projects both on campus and off. Independent research is encouraged and supported throughout the year, and funding is available for summer research internships. Students regularly present the results of their research on campus during the Undergraduate Research and Creative Works (URCW) Symposium and at regional meetings like the Symposium for Young Neuroscientists and Professors of the South East.

Meet Logan

Hometown: Greenville, N.C.

Currently: 3rd year Medical Student

Honors & Clubs: "I was humbled to be accepted into the Honors program during my sophomore year as well as being inducted into Alpha Lambda Delta Honor society. I was especially grateful to be accepted into the new pre-health honors society, as well as, part of Phi Mu and the new Vice President of the National Society of Leadership and Success."

Why I Chose HPU: "I chose HPU because the moment I stepped on campus it felt like home. It was amazing to hear about how much the professors were dedicated to teaching and helping the students succeed. Each day, as I sit in a class of fewer than 15 students, I am thankful that I chose HPU where I can continue to grow as a student as well as an adult."

Why I Chose Neuroscience: "My career plans begin with medical school, with the dream of becoming a neurologist. I chose neuroscience as a major because it has always been an interest of mine. Some people have passions in art or literature, but I find my passion in pursuing the knowledge of the brain. I see neuroscience as a completely fascinating field of study with new research findings always on the rise. Currently, I am working with Dr. Ackerman on a project focused on the development of zebra fish embryos. We are looking specifically at how nicotine effects the development of the eye. So far, I have enjoyed learning how to work with the zebra fish as well as being able to watch the embryos develop at certain time points."



For more information about HPU's Neuroscience Program, contact: