**Applied Neuroscience Minor**

A Minor in Applied Neuroscience is designed for students who wish to pursue an interdisciplinary study of psychology and thought. Students completing the program will have a broad understanding of the field of neuroscience and will have demonstrated an approach that highlights the interdisciplinary nature of neuroscience. The candidate must complete 18 hours of coursework from the approved list shown below. The Applied Neuroscience Minor may be pursued by students with any declared major, including but not limited to students majoring in Psychology.

**Course Requirements (18 total hours)**

**1. Neurobiological Core (Choose One):**

\_\_ BIO/PSY 3033 Introduction to Neuroscience

\_\_ PSY 4403 Biological Psychology

**2. Neuropsychological Core (Choose One):**

\_\_ PSY 3713 Cognitive Psychology

\_\_ PSY 4413 Cognitive Neuroscience

\_\_ PSY 4423 Sensation & Perception

\*If a student takes both PSY 4403 and BIO/PSY 3033, one of those courses may be used to satisfy this requirement

**3. Elective Courses (Choose Four):**

\_\_ ABE 3413 Bioinstrumentation

\_\_ ABE 4323 Physiological Systems in Biomedical Engineering

\_\_ ABE 4613 Biomechanics

\_\_ ABE 4633 Biomedical Signals and Sensors

\_\_ ABE 4723 Tissue Engineering and Regeneration

\_\_ BCH 4013 Principles of Biochemistry

\_\_ BCH 4713 Molecular Biology

\_\_ BIO 3004 Human Anatomy

\_\_ BIO/PSY 3033 Introduction to Neuroscience

\_\_ BIO 4133 Human Genetics

\_\_ BIO 4503 Vertebrate Histology

\_\_ BIO/PO 3103 Genetics

\_\_ CSE 4433 Virtual and Extended Reality

\_\_ CSE 4633 Artificial Intelligence

\_\_ CSE 4643 AI Robotics

\_\_ CSE 4663 Human-Computer Interaction 12

\_\_ CSE 4683 Machine Learning and Soft Computing

\_\_ EP 4703 Neural Control & Human Movement

\_\_ PE 3223 Motor Development & Movement

\_\_ PE 4853 Motor Learning & Skill Analysis

\_\_ PHI 4223 Philosophy of Cognitive Science

\_\_ PSY 3713 Cognitive Psychology

\_\_ PSY 4223 Drug Use and Abuse

\_\_ PSY 4403 Biological Psychology

\_\_ PSY 4413 Cognitive Neuroscience

\_\_ PSY 4423 Sensation & Perception

\_\_ PSY 4653 Cognitive Science

\_\_ PSY 4713 Language and Thought

\_\_ PSY 4733 Memory

NOTE: Students may choose to take a 4800 Undergraduate Research course or a Directed Individual Study where they engage in faculty-mentored, neuroscience-related research for up to 3 hours credit toward elective requirements. In order to utilize this option, students must submit a research plan signed by their faculty mentor for approval by the Applied Neuroscience Curriculum Committee.

Other courses that can be reasonably justified as having neuroscience content may also be counted toward elective requirements with approval of the program coordinator. This must be completed and approved prior to applying for graduation.

Assuming you have met the minor requirements, when you apply for your degree be sure to claim “Applied Neuroscience” as a minor in addition to listing your major. That way, your transcript will be sent for verification, and your Minor in Applied Neuroscience will become an official part of your work here.

Core courses taken beyond the specified requirements may be applied to fulfill the elective requirements.

Electives must come from at least **two** departments.

Students must receive a final grade of C or greater in all classes to be counted for the minor.