Introduces Neuroscience (1-3 Credits)
This course provides an introduction to the field of neuroscience, focusing on how the nervous system functions in the context of human behavior. Students will engage in discussions and readings that cover various topics, including cognitive processes, behavior, and the neural basis of these phenomena. The course aims to provide a foundational understanding of the nervous system, its functions, and how it relates to human behavior. 

Prerequisite: Minimum grade of C- in MATH120 or higher MATH course; and a minimum grade of C- in NEUR200 or BSCI353; or equivalent.

Recommended: NEUR306 or BSCI353; and PHYS132.

Restriction: Permission of Neuroscience Program.

Repeatable to: 12 credits.

NEUR305 Advanced Research in Neuroscience (1-3 Credits)
Research and/or integrated reading in a topic related to neuroscience under the direction and close supervision of a faculty member.

Prerequisite: Complete at least 3 credits of NEUR379 (or equivalent) with the same faculty member as NEUR479 credit.

Recommended: Minimum neuroscience track GPA of 3.0.

Restriction: Permission of the Neuroscience Program.

Repeatable to: 12 credits.

NEUR379 Special Topics: Research in Neuroscience (1-3 Credits)
Research and/or integrated reading in a topic related to neuroscience, under the direction of a faculty member. The course offers an opportunity for students to explore specific areas of neuroscience in depth, working closely with faculty mentors.

Recommended: At least a 3.0 neuroscience track GPA and no records of academic misconduct.

Restriction: Permission of Neuroscience Program.

Repeatable to: 12 credits.

NEUR405 Neuroscience Laboratory (3 Credits)
Students will utilize neurophysiological techniques to examine fundamental principles of neurons and neural circuits. This course will reinforce content from prerequisite NEUR courses. Students will also strengthen skills in experimental design and scientific writing.

Prerequisite: Minimum grade of C- in BSCI170 and BSCI171. Cross-listed with: PSYC202.

Credit Only Granted for: PSYC309U, NEUR200, PSYC202 or PSYC301.

Formerly: PSYC309U.

Repeatable to: 5 credits if content differs.

NEUR479 Special Topics: Research in Neuroscience (1-3 Credits)
Research and/or integrated reading in neuroscience under the direction and close supervision of a faculty member.

Prerequisite: Complete at least 3 credits of NEUR379 (or equivalent) with the same faculty member as NEUR479 credit.

Recommended: Minimum neuroscience track GPA of 3.0.

Restriction: Permission of the Neuroscience Program.

Repeatable to: 12 credits.

NEUR306 Cellular and Molecular Neuroscience (3 Credits)
Students will gain an appreciation of neuroscience as the nexus of chemistry, physics, and biology. Additionally, they will gain an understanding of how both individual and networks of neurons function as variable electrical circuits; our nervous systems transduce signals from the outside world and set-off molecular cascades; the behavior of a neuron can be changed and remain the same in response to changing variables. Techniques used to study the nervous system at a cellular and molecular level will be discussed.

Prerequisite: Earning C- or higher in NEUR306 or BSCI330.

Corequisite: Must have completed or be concurrently enrolled in PHYS132 or equivalent course.

Credit Only Granted for: NEUR306 or BSCI353.

NEUR305 Instructional Assistance Practicum (1-3 Credits)
Students serve as instructional assistants in selected undergraduate neuroscience courses. Roles and responsibilities and pre/co-requisites are determined on a course-specific basis and approved by the Program Curriculum Committee.

Repeatable to: 9 credits.

Additional Information: Course not acceptable toward major requirements in the Neuroscience.