

BACHELOR OF SCIENCE IN NEUROSCIENCE

2023-2024 COURSE CATALOG

Neuroscience is the study of the nervous system at different levels of interest – from molecules to cells, networks, the brain and entire body – and through the perspective of different disciplines. The focus is on organization, development, and function of the nervous system, and how this relates to behavior and cognition, and disorders of the same. The program provides students with comprehensive foundational knowledge in neuroscience and behavioral neuroscience, while exposing them to hands-on-research experience and nurturing the development of analytical, critical thinking, and communication skills. The curriculum is designed to prepare students for careers and graduate training in this and related fields.

TOTAL CREDIT HOURS: 65-66 CREDITS

10-14 credit hours of which count for General Education.

A grade of "C" or better is required for all courses counting towards the Neuroscience major.

NEUROSCIENCE CORE REQUIREMENTS: 27-28 CREDITS

PSY 1879G Introductory Psychology

BIO 1500 General Biology I (4 credits)

CHM 1310G General Chemistry I

CHM 1315G General Chemistry I Lab

CHM 1410G General Chemistry II

CHM 1415G General Chemistry II Lab

MAT 2110G Brief Calculus with Applications

NEU 3905 Neuroscience Research Methods

CHOOSE 1 RESEARCH COURSE:

BIO 3451 Undergraduate Research

OR NEU 4100 Undergraduate Research

CHOOSE 1 STATISTICS COURSE:

MAT 2250G Elementary Statistics

OR PSY 3610 Statistical Methods of Psychology

OR BIO 4750 Statistical Analysis of Scientific Data

PSYCHOLOGY GROUP: 18 CREDITS

All psychology courses have introductory psychology as a prerequisite (PSY1879G or PSY1890G) with a C or better.

PSY 3310 Biological Psychology

CHOOSE 3 COURSES:

PSY 3450 Neuropsychology

PSY 3680 Sensation and Perception

PSY 3820 Cognitive Neuroscience

PSY 4810 Neuropsychopharmacology. *PSY 3310*

CHOOSE 2 COURSES:

PSY 3518 Psychology of Language Development

PSY 3710 Human Memory

PSY 3780 Abnormal Psychology

PSY 3830 Cognitive Psychology

BIOLOGY GROUP: 20 CREDITS

BIO 3120 Molecular and Cellular Biology (4 credits). *BIO 1500, CHM 1410, and CHM 1415*

BIO 3200 Genetics (4 credits) *BIO 3120 or CHM 3450*

BIO 4834 Neurobiology (4 credits) *BIO 3120 or permission of the instructor.*

BIO 4835 Advanced Neurobiology (4 credits) *A grade of "C" or better in BIO 4834.*

CHOOSE 1 COURSE:

BIO 4832 Animal Behavior (4 credits). *Sixteen semester hours of Biological Sciences or permission of the instructor.*

BIO 4833 Neurobiology of Diseases (4 credits). *A grade of "C" or better in BIO 3120.*

PLEASE SEE COURSE CATALOG FOR ADDITIONAL NOTES AND PREREQUISITES.



DEPARTMENT OF **PSYCHOLOGY**

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