FLORIDA ATLANTIC UNIVERSITY

NEW/CHANGE PROGRAM REQUEST
Undergraduate Programs

UUPC Approval 9/8/25
UFS Approval _____
Banner _____
Catalog _____

Department NA

College Honors College

Program Name
Neuroscience Concentration

☐ **New Program***

☑ **Change Program***

Effective Date *(TERM & YEAR)*
Spring 2026

Please explain the requested change(s) and offer rationale below or on an attachment.

Add PSB 4072 Honors Neurobiology of Mental Illness to the Neuroscience Concentration (Cellular Track) to the Cellular Neuroscience Electives .

Add PSB 4072 Honors Neurobiology of Mental Illness to the Neuroscience Concentration (Cognition and Behavior Track) to the Neuroscience Electives .

This course involves advanced coursework in neurobiology that will be useful for our neuroscience students.

*All new programs and changes to existing programs must be accompanied by a catalog entry showing the new or proposed changes.

Faculty Contact/Email/Phone
Tracy Mincer/tmincer@fau.edu/6-8718

Consult and list departments that may be affected by the change(s) and attach documentation
The psychology department brought this request to us. They have approval from the biology

Approved by		***Date***
Department Chair	Tracy Mincer	8/22/2025
College Curriculum Chair	Terje Hill	8/22/2025
College Dean	Amber Ems	8/22/2025
UUPC Chair	Korey Sorge	9/8/25
Undergraduate Studies Dean	Dan Moerchoff	9/8/25
UFS President		
Provost		

Email this form and attachments to mjenning@fau.edu seven business days before the UUPC meeting.

CONCENTRATION IN NEUROSCIENCE

Students must earn a "C" or better in each course taken to fulfill a concentration requirement.

Advisory Board:

Dr. Lucia Carvelli | Dr. Erik Duboue | Dr. Julie Earles | Dr. Shaina Rowell | Dr. Casey Spencer

Neuroscience students study the molecular, cellular, structural, and functional aspects of the nervous system. Neuroscience is an interdisciplinary field of study that combines biology, psychology, chemistry, and other fields in an attempt to understand how the nervous system works. The neuroscience concentration will lead students through the fundamentals of the field, spanning the breadth from molecular signaling to human cognition and behavior. The core curriculum will give students the base knowledge necessary to explore the interdisciplinary field. The concentration is composed of two tracks—(1) Cellular Neuroscience and (2) Neuroscience, Cognition, and Behavior--each designed to meet the needs of students with diverse interests while providing rigorous, multidisciplinary preparation for medical school and graduate programs in areas such as neuroscience, biology, psychology, and behavioral medicine.

There are two tracks:

Track one: Cellular Neuroscience
Track Two: Neuroscience, Cognition, and Behavior

Courses

TRACK ONE

NEUROSCIENCE - CELLULAR NEUROSCIENCE

Advising sheet

Course#	Course Title
NEURO CORE	
PSY 1012	Honors General Psychology
BSC 1010	Honors Biological Principles
BSC 1010L	Honors Biological Principles Lab
BSC 1011	Honors Biodiversity
BSC 1011L	Honors Biodiversity Lab
PCB 3703	Honors Human Morphology 1
PCB 3703L	Honors Morphology and Function 1 Lab
CHM 2045	Honors General Chemistry 1
CHM 2045L	Honors General Chemistry 1 Lab
CHM 2046	Honors General Chemistry 2

Course#	Course Title
CHM 2046L	Honors General Chemistry 2 Lab
STA 2023	Honors Statistics
IDS 4970	Honors Thesis (two semesters)

ADDITIONAL REQUIRED COURSES

Course#	Course Title
MAC 2311	Honors Calculus 1
MAC 2312*	Honors Calculus 2
CHM 2210	Honors Organic Chemistry 1
CHM 2210L	Honors Organic Chemistry 1 Lab
CHM 2211	Honors Organic Chemistry 2
CHM 2211L	Honors Organic Chemistry 2 Lab
PHY 2048	Honors General Physics 1
or PHY 2053	Honors College Physics 1
PHY 2048L	Honors General Physics 1 Lab
PHY 2049*	Honors General Physics 2
or PHY 2054	or College Physics 2
PHY 2049L	Honors General Physics 2 Lab
BCH 3033	Honors Biochemistry
PCB 3063	Honors Genetics
PCB 4102	Honors Cell Biology
	Cellular Neuroscience Electives (selected from list below)
	TOTAL

*Students may substitute College Physics II (PHY 2054), in which case MAC 2312 would not be required. But Calculus-based Physics is highly recommended. Students are reminded they need 42 upper-level (3000 or 4000-level) credits to graduate.

CELLULAR NEUROSCIENCE ELECTIVES (SELECT 3)

Course#	Course Title
PCB 4843C	Practical Cell Neuroscience
ZOO 4742	Honors Principles of Human Neuroanatomy
BSC 4905	Honors Neuroscience Journal Club
BSC 4930	Honors CRISPR Tech Lab

Course#	Course Title
BSC 4930	Honors Developmental Neurobiology
BSC 4930	Honors Neurophysiology
BSC 4930	Honors Sensory Systems
BSC 4930	Honors Systems Neuroscience
MCB 3020/L	Honors Microbiology and Lab
PCB 4024	Honors Molecular Cell Biology
PCB 4233	Immunology
PCB 4253	Honors Developmental Biology
PCB 4832C	Neurophysiology
PSB 3340	Honors Behavioral Neuroscience
PSB 3441	Honors Drugs and Behavior (psychopharmacology)
PSB 4243	Honors Neuroscience of Addiction
PCB 4841	Honors Cellular Neuroscience
BSC 4915	Honors Directed Independent Research in Biology
PSB 4072	Honors Neurobiology of Mental Illness

Note: Students in the Max Planck Honors Program may count Introduction to Neuroscience Research (PSB 4003, 1 credit) and two distinct MPHP Enrichment courses (1 credit each) as their 3 credit, Neuroscience elective.

Track Two

NEUROSCIENCE - NEUROSCIENCE, COGNITION, AND BEHAVIOR

Advising Sheet

Course#	Course Title
NEURO CORE	
PSY 1012	Honors General Psychology
BSC 1010	Honors Biological Principles
BSC 1010L	Honors Biological Principles Lab
CHM 2045	Honors General Chemistry 1
CHM 2045L	Honors General Chemistry 1 Lab
CHM 2046	Honors General Chemistry 2
CHM 2046L	Honors General Chemistry 2 Lab
STA 2023	Honors Statistics
IDS 4970	Honors Thesis (two semesters)
Additional required courses	
PSB 3340	Honors Behavioral Neuroscience

Course#	Course Title
CLP 4143	Honors Psychopathology (Abnormal Psychology)
EXP 3604	Honors Cognition
PSY 3213	Honors Research Methods in Psychology
PSY 3213L	Honors Research Methods in Psychology Lab
PSY 4933	Honors Advanced Writing in Psychology
or ISC 3933	or Honors Math and Science Seminar
PSB 3441	Honors Drugs and Behavior (Psychopharmacology)
	Neuroscience Electives (see list below)
	Psychology Electives (see list below)
	Biology Electives (see list below)
	TOTAL

NEUROSCIENCE ELECTIVES (SELECT 2)

Course#	Course Title
PCB 4843C	Practical Cell Neuroscience
BSC 4905	Honors Neuroscience Journal Club
BSC 4930	Honors Neurophysiology
BSC 4930	Honors CRISPR Tech Lab
BSC 4930	Honors Developmental Neurobiology
BSC 4930	Honors Sensory Systems
BSC 4930	Honors Systems Neuroscience
EXP 3202	Honors Sensation and Perception
PCB 4841	Honors Cellular Neuroscience
PSB 4243	Honors Neuroscience of Addiction
PSB 4810	Neurobiology of Learning and Memory
PSB 4072	Honors Neurobiology of Mental Illness

Other electives approved by your neuroscience faculty advisor

Note: Students in the Max Planck Honors Program may count Introduction to Neuroscience Research (PSB 4003, 1 credit) and two distinct MPHP Enrichment courses (1 credit each) as their 3 credit, Neuroscience elective.

PSYCHOLOGY ELECTIVES (SELECT 2)

Course#	Course Title
CLP 4314	Honors Health Psychology
SOP 3004	Honors Principles of Social Psychology

Course#	Course Title
DEP 3053	Honors Psychology of Human Development
DEP 4463C	Honors Lab in Cognitive Aging
DEP 4464	Honors Psychology of Aging
PPE 3003	Honors Personality
PSY 4604	Honors History and Systems of Psychology
Other electives approved by your neuroscience faculty advisor	

BIOLOGY ELECTIVES (SELECT 2)

Course#	Course Title
BSC 1011/L	Honors Biodiversity and Lab
BSC 2085/L	Anatomy and Physiology and Lab
MCB 3020/L	Honors Microbiology and Lab
PCB 3063	Honors Genetics
PCB 3703/L	Honors Human Morphology and Function and Lab
PCB 4024	Honors Molecular Cell Biology
PCB 4102	Honors Cell Biology
PCB 4253	Honors Developmental Biology
ZOO 4742	Honors Principles of Human Neuroanatomy