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MEDICAL, HEALTH SCIENCES, AND RESEARCH CONCENTRATION IN NEUROSCIENCE

Neuroscience, Bachelor of Science - Medical, Health Sciences and Research Concentration in Neuroscience

Code GENERAL EDUCATIO Required	Title (DN REQUIREMENTS - 34 Hours	Credits	
Minimum of "C-"requi	ired		
Fundamental Skills	i	15	
Writing – 6 hrs.			
ENGL 1150	ENGLISH COMPOSITION I		
ENGL 1160	COLLEGE RESEARCH AND INFORMATION LITERACY		
Oral Communica	ition – 3 hrs.		
CMST 1110	PUBLIC SPEAKING FUNDS		
or CMST 2120	ARGUMENTATION AND DEBATE		
Quantitative Lite	racy – 3 hrs.		
MATH 1120	INTRODUCTION TO MATHEMATICAL AND COMPUTATIONAL THINKING		
or MATH 1130	QUANTITATIVE LITERACY		
or MATH 1140	QUANTITATIVE REASONING FOR HEALTHCAR PROFESSIONALS	RE	
or MATH 1300	COLLEGE ALGEBRA WITH SUPPORT		
Data Literacy – 3	hrs.		
Select one from the	e following:		
STAT 1100	DATA LITERACY AND VISUALIZATION		
STAT 1530	ELEMENTARY STATISTICS		
Until Fall 2028, students can satisfy this requirement with an approved data literacy course, or any approved natural or social science general education course.			
Breadth of Knowledge 13			
Social Science - 3	hrs.		
Humanities – 3 hrs.			
Natural & Physical Science (must complete a lab) – 4 hrs.			
Arts – 3 hrs.			
Individual and Soci	al Responsibility	6	
Cultural Knowledg	e – 3 hrs.		
Civic Knowledge a	nd Engagement – 3 hrs.		
MAJOR REQUIREM	ENTS		
**Course will satisfy L	JNO's General Education requirement		
^Course requires pre-requisite(s)			
Note: BIOL 1450 may be used either in Core or in Path, not both			
Neuroscience Major - 50-56 Hours Required			
Required Neurosci	ence Fundamentals Courses (Core)	20-23	

NEUR 1000	SUPERHEROES, ZOMBIES, CYBORGS AND DROIDS: COULD THEY LIVE AMONG US? (** ^)	
or BIOL 1450	BIOLOGY I	
NEUR 1520	INTRODUCTION TO NEUROSCIENCE I (^)	
NEUR 1540	INTRODUCTION TO NEUROSCIENCE II (^)	
PSYC 3130	STATISTICS FOR THE BEHAVIORAL SCIENCES (^)	
or STAT 3000	STATISTICAL METHODS I	
NEUR 3600	RESEARCH METHODS IN NEUROSCIENCE (^)	
or PSYC 3140	RESEARCH METHODS IN PSYCHOLOGY	
Select one of the fo		
PHYS 1110 & PHYS 1154	PHYSICS FOR LIFE SCIENCE I and GENERAL PHYSICS LABORATORY I (** ^)	
OR		
CHEM 1140 & CHEM 1144	FUNDAMENTALS OF COLLEGE CHEMISTRY and FUNDAMENTALS OF COLLEGE CHEMISTRY LABORATORY (** ^)	
OR	()	
CHEM 1180 & CHEM 1184	GENERAL CHEMISTRY I and GENERAL CHEMISTRY I LABORATORY (** ^)	
and		
CHEM 1190 & CHEM 1194	GENERAL CHEMISTRY II and GENERAL CHEMISTRY II	
d Chew 1154	LABORATORY (^)	
Refer to Neuroscie 12-17 hours of patl	LABORATORY (^) nce Bachelor of Science for required hway courses	
Refer to Neuroscie 12-17 hours of pati MEDICAL, HEALTH	LABORATORY (^) nce Bachelor of Science for required hway courses SCIENCES, AND RESEARCH	
Refer to Neuroscie 12-17 hours of path MEDICAL, HEALTH CONCENTRATION I	LABORATORY (^) ence Bachelor of Science for required hway courses SCIENCES, AND RESEARCH N NEUROSCIENCE REQUIREMENTS:	25
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Advanced Neuroscience Courses

In addition to the required fundamentals courses, 18-19 credit hours as a combination from the Cornerstone Neuroscience Lecture (3 credits), Laboratory (3 – 4 credits), and Block I, Block II, and Block III Courses (12 credits) from the lists below must be selected. Within the 12 hour credit selection, at least 3 credits must come from Block I and at least 3 credits must come from Block II. To complete the 18 credits required, a minimum of 6 credits can be taken from a combination of Block I, Block II, and Block III. No more than three hours of Experiential Study in Neuroscience (NEUR 4960) may be applied to the Additional Neuroscience Courses category. NEUR 4910, NEUR 4920, and NEUR 4930 may be taken more than once as long as they are different topics. No courses can double-count within this 18 credit hour group.

credit hour group.	
Select one of the fo	llowing Cornerstone lab courses -
NEUR 4200	ADVANCED NEUROSCIENCE LABORATORY (^)
NEUR/BIOL 4810	BEHAVIORAL GENETICS (^)
PSYC/BIOL 4280	ANIMAL BEHAVIOR LABORATORY (^)
Select one of the fo	llowing Cornerstone lecture
	ot already been used to satisfy the
Neuroscience Block	Courses requirement below
NEUR 4000	SYSTEMS NEUROSCIENCE (^)
NEUR 4160	NEUROPHARMACOLOGY (^)
NEUR 4330	SOCIAL NEUROSCIENCE (^)
NEUR 4480	NEUROIMMUNOLOGY (^)
NEUR/BIOL 4870	MOLECULAR AND CELLULAR NEUROBIOLOGY (^)
NEUR/BIOL 4890	GENES, BRAIN, AND BEHAVIOR (^)
PSYC/BIOL 4320	HORMONES & BEHAVIOR (^)
Block I, II, and III Co	ourses
Select at least one o	of the following from Block I
	ces: Molecular and Cellular
Neuroscience	
NEUR 4000	SYSTEMS NEUROSCIENCE (^)
NEUR 4160	NEUROPHARMACOLOGY (^)
NEUR 4290	NEUROETHOLOGY (^)
NEUR 4340	ADVANCED BEHAVIORAL NEUROSCIENCE (^)
NEUR 4480	NEUROIMMUNOLOGY (^)
NEUR 4640	NEURAL MECHANISMS OF SUBSTANCE USE DISORDERS (^)
NEUR 4840	GLIA IN HEALTH AND DISEASE (^)
NEUR 4850	NEUROBIOLOGY OF LEARNING AND MEMORY (^)
NEUR 4870	MOLECULAR AND CELLULAR NEUROBIOLOGY (^)
NEUR 4890	GENES, BRAIN, AND BEHAVIOR (^)
NEUR 4910	SPECIAL TOPICS IN NEUROSCIENCE - BLOCK 1 (^)
Select at least one	of the following from Block II
Neuroscience Choic Neuroscience	ces: Behavioral and Cognitive
NEUR/BIOL/GERO 3500	BIOLOGICAL PRINCIPLES OF AGING (^)
NEUR/GERO 4050	ADVANCED BIOLOGY OF AGING

NEUR/PSYC 4230 BEHAVIORAL NEUROSCIENCE (^)

NEUR/BMCH 4650 NEUROMECHANICS OF HUMAN MOVEMENT (^)

SOCIAL NEUROSCIENCE (^)

NEUR 4330

NEUR 4920	SPECIAL TOPICS IN NEUROSCIENCE - BLOCK 2 (^)			
PSYC 4090	COGNITIVE NEUROSCIENCE (^)			
PSYC 4210	SENSATION AND PERCEPTION (^)			
PSYC/PHIL 4250	LIMITS OF CONSCIOUSNESS			
PSYC/BIOL 4270	ANIMAL BEHAVIOR (^)			
PSYC/BIOL 4320	HORMONES & BEHAVIOR (^)			
Block III Additional	Advanced Neuroscience Choices:			
NEUR 4930	SPECIAL TOPICS IN NEUROSCIENCE - NEURO ELECTIVE BLOCK (^)			
NEUR 4960	EXPERIENTIAL STUDY IN NEUROSCIENCE (^)			
College Breadth		0		
	satisfy College of Arts and Sciences' readth, a CAS comprehensive major.			
	ognate Requirement	15		
Students must complete 15 credits worth of a cognate set of courses (see below) OR may choose a minor of at least 15 hours or a double major. Courses taken within the major may not also be used toward the completion of cognate coursework. Six (6) hours of cognate coursework may double-count with your Gen Ed requirements. No more than 6 hours of cognate coursework may be at the 1000 level. At least 3 hours of cognate coursework must be at the 3000-4000 level. Note that some classes have prerequisites.				
ANTH 1050	INTRODUCTION TO ANTHROPOLOGY			
	(**)			
ANTH 3910	INTRODUCTION TO PHYSICAL ANTHROPOLOGY (** ^)			
ANTH 4230	ETHNOMEDICINES OF THE AMERICAS (^)			
ANTH 4240	MEDICAL ANTHROPOLOGY			
BIOI 1000	DIGITAL HEALTH AND BIOLOGICAL SYSTEMS (**)			
BIOL 2740	HUMAN ANATOMY AND PHYSIOLOGY I (^)			
BIOL 2840	HUMAN ANATOMY AND PHYSIOLOGY II (^)			
BIOL 3020	MOLECULAR BIOLOGY OF THE CELL (^)			
BIOL 3240	INTRODUCTION TO IMMUNOLOGY (^)			
BIOL 4110	STATISTICS FOR BIOLOGICAL SCIENCES (^)			
BIOL 4130	MOLECULAR GENETICS (^)			
BIOL 4140	CELLULAR BIOLOGY (^)			
BIOL 4230	EVOLUTION (^)			
BIOL 4260	BEHAVIORAL ECOLOGY (^)			
BIOL 4650 & BIOL 4654 BIOL 4730	BIOCHEMISTRY I and BIOCHEMISTRY I LABORATORY (^) VERTEBRATE ENDOCRINOLOGY (^)			
BIOL 4740	ANIMAL PHYSIOLOGY (^)			
BIOL 4850	DEVELOPMENTAL BIOLOGY (^)			
BIOL 4860	COMPARATIVE GENOMICS (^)			
BIOL 4960	ADVANCED GENETICS (^)			
BMCH 2400	HUMAN PHYSIOLOGY & ANATOMY I (**)			
BMCH 2500	HUMAN PHYSIOLOGY AND ANATOMY II (^)			
BMCH 4100	BIOINSPIRED ROBOTICS			
CHEM 3650 & CHEM 3654	FUNDAMENTALS OF BIOCHEMISTRY and FUNDAMENTALS OF BIOCHEMISTRY LABORATORY (^)			

	CHEM 4610	BIOCHEMISTRY OF METABOLISM (^)
	CHEM 4650	BIOCHEMISTRY I
	& CHEM 4654	and BIOCHEMISTRY I LABORATORY (^)
	CSCI 1200	COMPUTER SCIENCE PRINCIPLES
	& CSCI 1204	and COMPUTER SCIENCE PRINCIPLES
	ENVN 4320	LABORATORY (** ^) ECOLOGICAL SUSTAINABILITY AND
	EINVIN 4320	HUMAN HEALTH (^)
	MATH 1940	CALCULUS FOR BIOMEDICINE (^)
	PHIL 2020	INTRODUCTION TO PHILOSOPHY OF
		MIND
	PHIL 3650	PHILOSOPHY OF MIND (^)
	PHIL 4220	NEUROETHICS (^)
	PHYS 3300	INTRODUCTION TO BIOMEDICAL
		PHYSICS (^)
	PHYS 3500	ELEMENTS OF ELECTRONICS (^)
	PHYS 4500	BIOLOGICAL PHYSICS (^)
	PSYC 1010	INTRODUCTION TO PSYCHOLOGY I (**)
	PSYC 1020	INTRODUCTION TO PSYCHOLOGY II (^)
	PSYC 2024	EXPLORATIONS IN THE SCIENCE OF
		PSYCHOLOGY (^)
	PSYC 3520	CHILD PSYCHOLOGY (^)
	PSYC 4020	LEARNING (^)
	PSYC 4024	
	D01/0 4004	
	PSYC 4234	LABORATORY IN PSYCHOLOGY: BEHAVIORAL NEUROSCIENCE (^)
	PSYC 4440	ABNORMAL PSYCHOLOGY (^)
	PSYC 4460	PSYCHOLOGY OF ADULT DEVELOPMENT
	1310 4400	AND AGING (^)
	PSYC 4470	MENTAL HEALTH AND AGING (^)
	PSYC 4990	SENIOR THESIS (^)
j	ELECTIVES	

Elective hours as required to reach a total of 120 hours