

College of Science - Neuroscience, BS				
Catalog Year: 2019 - 2020			Grades	
Mason Core Requirements: 24 credits	Course Information	Credits	Earned	Needed
Written Communication:	ENGH 101 (100)	3		
Oral Communication:	COMM 100 or 101	3		
*Quantitative Reasoning	*Satisfied by Major Requirements			
*Information Technology	*Satisfied by Major Requirements (CDS 130)			
Arts		3		
Global Understanding		3		
Literature		3		
*Natural Science	*Satisfied by Major Requirements			
*Social & Behavioral Sciences	*Satisfied by Major Requirement (PSYC 100)			
Western Civilization/World History		3		
Written Communication:	ENGH 302	3		
Synthesis/Capstone		3		
Major Requirements (78 - 81 credits)				
CDS 130	Computing for Scientists	3-4		
One from the following: MATH 113, 123/124		4-6		
BIOL 213	Cell Structure and Function	4		
Course in Statistics (3-4 credits): BIOL 214; ST	Biostatistics for Biology Majors	3-4		
BIOL 311	General Genetics or	4		
or BIOL 430	Advanced Human Anatomy and Physiology			
CHEM 211/213	General Chemistry I with Lab	3/1		
CHEM 212/214	General Chemistry II with Lab	3/1		
One from the following Mason Core Natural Science sequences:				
PHYS 160/161 and 260/261	University Physics I & II with labs	8		
PHYS 243/244 & PHYS 245/246	College Physics I & II with labs			
PSYC 100	Basic Concepts in Psychology	3		
PSYC 375	Brain and Sensory Processes	3		
PSYC 376	Brain and Behavior	3		
NEUR 327	Cellular, Neurophysiological, and Pharmacological Neuroscience	3		
NEUR 335	Molecular, Developmental, and Systems Neuroscience	3		
NEUR 410 or NEUR 411	Current Topics or Seminar in Neuroscience	3		
PSYC 373 (min grade of C- required)	Biopsychology Laboratory	2		
Electives in the Major (24 credits): BENG 101, 313; BIOL 305, 306, 308, 310, 311, 322, 323, 326, 417, 420, 425, 426, 430, 431, 452, 453, 471, 482-484, 515; CDS 301; CHEM 313-315, 318, 321, 463-465; MATH 114 or 116, 203, 213, 214; NEUR 405, 406, 410, 411, 440, 459, 451, 461, 480; PHYS 262, 263; PSYC 309, 317, 441, 472.				
Only courses not already taken in the degree will apply as electives, with the exception of seminar and topics courses; a different topic must be addressed in the second instance of a seminar or topics course. Students may apply no more than 6 credits of courses with a grade of 'D' to this requirement				
Major Elective #1:				
Major Elective #2:				
Major Elective #3:				
Major Elective #4:				
Major Elective #5:				
Major Elective #6:				
Major Elective #7:				
Major Elective #8:				
Degree Notes				
Approx. 15-18 remaining credits may be completed with elective courses to bring the degree total to 120 with 45 of these credits at the 300/400 level. Students intending to pursue a doctorate in neuroscience or a medical degree are advised to take CHEM 313 Organic Chemistry I and CHEM 315 Organic Chemistry Lab . Transfer students who have earned transfer credit for PSYC 372 Biopsychology may substitute this course for PSYC 375 Brain and Sensory Processes				
Advisor Notes:				

FALL YEAR 1	CREDITS	SPRING YEAR 1	CREDITS	NOTES
MATH 113*	4	BIOL 213*	4	*Fulfills Mason
CHEM 211*	3	CHEM 212	3	Core requirements
CHEM 213	1	CHEM 214	1	(some may also
PSYC 100*	3	CDS 130*	3	fulfill degree
ENGH 101*	3	COMM 100 or 101*	3	requirements).
UNIV 100	1			Note: MATH 114 or 213
Total:	15	Total:	14 credits	can replace 113.

FALL YEAR 2	CREDITS	SPRING YEAR 2	CREDITS	NOTES
BIOL 214 OR	4	BIOL 311	4	Note: STAT 250, PSYC
STAT 250	3	PHYS 245	3	300, or MATH 352 can
PHYS 243	3	PHYS 246	1	Replace BIOL 214.
PHYS 244	1	CLAS 250*	3	Note: PHYS 160/161/
HIST 100 or 125*	3	GLOA 101*	3	260/261 can replace
AVT 252*	3			The physics sequence.
Total:	13 or 14 credits	Total:	14 credits	Note: Students

FALL YEAR 3	CREDITS	SPRING YEAR 3	CREDITS	NOTES
ENGH 302*	3	PSYC 376	3	Interested in pursuing
PSYC 375	3	NEUR 327	3	Medical school should
PSYC 373	1	NEUR Elective	4	Enroll in organic CHEM
NEUR Elective	3	NEUR Elective	3	I and II (313/315 and
NEUR Elective	3	General Elective	3	314/318) and
General Elective	3			BIOCHEM (BIOL 483).
Total:	17 credits	Total:	16 credits	Use medical tract 4
				year plan or take
				these courses over
				summer terms.

FALL YEAR 4	CREDITS	SPRING YEAR 4	CREDITS	NOTES
synthesis	3	NEUR elective	3	Note: NEUR 411 can
NEUR 335	3	NEUR elective	3	Replace NEUR 410.
NEUR Elective	3	NEUR 410*	3	
NEUR Elective	3	General Elective	3	
General Elective	3	General Elective	3	
Total:	15 credits	Total:	15 credits	

*Students must earn 120 credits for graduation; 45 credits must be upper-level (courses 300+).