General Education Requirements Grade of C- or higher is required for ENGL101				Major Requirements Grade of C- or higher required in all courses		
Fundamental Studies			Requirements	Credits	Grade	
Requirements: 17 credits	Course	Credits	Grade	Benchmark 1 / Gateway R	equirement	ts
Academic Writing - FSAW	ENGL101	3		MATH135 or 140 ¹	4	
Professional Writing - FSPW		3		BSCI160&161	4	
Oral Communications - FSOC		3		BSCI170&171	4	
Math -FSMA	MATH135 or 140	4		CHEM131&132	4	
Analytic Reasoning - FSAR	MATH135 or 140	4		CHEM231&232	4	
Distributive Studies				Benchmark 2 Requirements		
Requirements:	Course	Credits	Grade	NEUR200	3	
Natural Science Lab - DSNL	BSCI160 w/161	4		PSYC100	3	
Natural Sciences - DSNS	BSCI170	3		CHEM241&242	4	
History/Social Sciences - DSHS	PSYC100	3		MATH135, 136, 140, or 141 ¹	4	
History/Social Sciences - DSHS				Required Suppporting Co	oursework	
Humanities - DSHU				CMNS100 ²	1	
Humanities - DSHU				CHEM271&272	4	
Scholarship in Practice - DSSP	NEUR405	3		PHYS131 ³	4	
Scholarship in Practice - DSSP (non major)				PHYS132 ³	4	
Big Question				NEUR305	3	
Normally double counted with Distributive Studies			NEUR306	3		
Requirements:	Course	Credits	Grade	NEUR405	3	
Big Question - SCIS				STATISTICS COURSE from:		
Big Question - SCIS				BIOM301, EPIB315, PSYC200, STAT400, STAT464,	3	
Diversity				or DATA400		
Overlap permitted with Distributive Studies and/or Big Question.				Major Supporting Sequence (15-16 credits) ⁴		
1 course must be taken outside of major.			Track Course 1 (Lab):	2-4		
Requirements:	Course	Credits	Grade	Track Course 2:	3	
Understanding Plural Societies - DVUP				Track Course 3:	3	
Cultural Competence - DVCC or 2nd DVUP				Track Course 4:	3	
Requirements for Graduation:				Track Course 5:	2-3	
Students must earn a minimum of 120 credits to complete a degree.				Notes: ¹ One of three MATH sequences may be taken: MATH135&136.		
At least 30 credits must be earned at UMD				MATH140&135, MATH140&141. Order of courses may vary based on prior learning credit. ² CMNS100 or similar seminar expected of all first semester freshmen. ³ PHYS131/132 is recommended. Prior Learning Credit for PHYS141/142 or 161. 260/261 may be substituted.		
15 of the final 30 credits must be earned at the 300-400 level						
12 upper level major credits must be earned at UMD						
Minimum 2.0 cumulative GPA				⁴ 3 out of 5 track courses must be from student's declared track.		



Neuroscience Track Options				
Molecular, Cellular, and Physiological Track (0425M)	Behavioral & Cognitive Track (0425B)			
ANSC327: Molecular & Quantitative Animal Genetics⁴	BSCI338: Advanced Special Topics (including N)⁵			
BCHM461/463: Biochemistry I or Biochemistry of Physiology	BSCI355: Neurobiology of Extraordinary Senses			
BSCI222 or HLSC322: Principles of Genetics ⁴	BSCI360: Principles of Animal Behavior			
BSCI330 or BSCI330H: Cell Biology & Physiology Lab	BSCI401: Animal Communication			
BSCI339: Selected Topics (including F)⁵	BSCI407: Behavioral Genetics			
BSCI343: Cellular Mechanisms of Aging and Disease	EDHD310: The Neuroscience of Learning and Development			
BSCI356 or BSCI339P: The Future of the Brain	KNES385: Motor Control and Learning Lab ⁶			
BSCI357: Neurobiology of Chemosensory Systems	KNES445: Exercise and Brain Health ⁶			
BSCI381: Molecular Neuroethology	PHIL202: Know Thyself: Wisdom Through Cognitive Science			
BSCI402: Genomics of Sensory Systems	PHIL366: Introduction to Philosophy of Mind			
BSCI403: Biology of Vision	PSYC300: Research Methods in Psychology Lab			
BSCI410: Molecular Genetics	PSYC302: Fundamentals of Learning and Behavior			
BSCI415: Molecular Genetics Lab	PSYC307: Collective Behav and Decision Making in Human & Animal Grps			
BSCI430: Developmental Biology	PSYC310: Perception			
BSCI431: Origins and Evolution of Nervous Systems	PSYC341: Introduction to Memory and Cognition			
BSCI439: Advanced Special Topics (including F) ⁵	PSYC403: Animal Behavior			
BSCI446: Advanced Systems Neuroscience	PSYC404: Intro to Psychopharmacology			
BSCI450: Mammalian Systems Physiology	PSYC406: Neuroethology			
BSCI451: Mammalian Systems Physiology Lab	PSYC407: Behavioral Neurobiology Lab			
BSCI452: Diseases of the Nervous System	PSYC411: Introduction to Functional Magnetic Resonance Imaging			
BSCI453: Biology of Hearing	PSYC414: Science of Sleep and Biological Rhythms			
BSCI456: Advanced Cellular Neuroscience	PSYC417: Data Science for PSYC and NEUR Majors Lab			
KNES370: Motor Development ⁶	PSYC431: Human and Animal Intelligence			
KNES462: Neural Basis of Human Movement ⁶	PSYC442: Psychology of Language			
	PSYC455: Cognitive Development			
	PSYC489: Advanced Special Topics (including A, G, J)⁵			
NEUR Research Credit				

NEUR379: Neuroscience Research⁷ ⁸[1-3c] NEUR479: Neuroscience Research Lab⁹ [1-3c]

Notes:

⁴ Students may not use both ANSC327 and BSCI222/HLSC322 toward filling Neuroscience track requirements. BSCI222/HLSC322 will not count as a Neuroscience Advanced Program Lab

⁵ Special & Selected Topics courses are allowed if approved for upper level courses in NEUR. See the NEUR website for a full list of preapproved courses or speak with your advisor for new courses.

⁶ Permission for regular-term KNES courses are requested through your academic advisor. Permissions are granted at the discretion of KNES dept.

⁷ NEUR379, with permission, may be substituted with BSCI399, BSCI399H, BSCI399L, PSYC479, PSYC468H, PSYC499H.

⁸ 3 credits earned in the same lab (can be over the course of multiple semesters) can count towards the 15 credit advanced elective credit requirement, but will not count towards a specific track.

⁹ NEUR479 can count as a NEUR Advanced Program Lab (but not as a track course), with a minimum of 4 credits and submission of research product to the NEUR Research Coordinator.

