BEHAVIORAL NEUROSCIENCE-BS-PREPROFESSIONAL EMPHASIS

THIS IS A GENERAL CURRICULUM GUIDE AND IS NOT APPLICABLE TO EVERY STUDENT. IT IS IMPORTANT TO MEET WITH YOUR ADVISOR.

Year One				
¹ BIO 120 General Biology I (w/lab)	4 (6)	⁴ BMS 208 Human Anatomy	3	
Prerequisites: High school chemistry, CHM 109, or CHM 115	. ,	Prerequisite: BIO 120		
strongly recommended (CHM 109 or 115 may be taken		¹ CHM 116 Principles of Chemistry II (w/lab)	5 <i>(7)</i>	
concurrently)		Prerequisites: CHM 115 and (MTH 122 or MTH 125 or MTH		
¹ CHM 115 Principles of Chemistry I (w/lab)	4 (6)	201)		
Prerequisites: High school chemistry and (MTH 110 or MTH		5WRT 130 or WRT 150 Strategies in Writing	3-4	
122 or MTH 125 or MTH 201)		PSY 101 Introductory Psychology	3	
² MTH 122 College Algebra	3	. ,		
Prerequisite: MTH 110 or by Grand Valley math placement				
Gen Ed-Arts or WRT 120 (self-placement)	3			
³ Elective	1			
Numbers noted within (parentheses) are contact hours Total	15	Total	15	
Year Two				
⁴BMS 290 Human Physiology	3	BMS 212 Introductory Microbiology	3	
Prerequisites: BMS 208 and two semesters of chemistry		Prerequisites: BIO 120 and (CHM 230 or CHM 232 or CHM 241)		
⁴CHM 241 Organic Chemistry for Life Sciences I (w/lab)	5 <i>(7)</i>	BMS 213 Laboratory in Microbiology	1(4)	
Prerequisite: CHM 116		Prerequisite: BMS 212 or concurrent enrollment		
STA 215 Introductory Applied Statistics	3	CHM 242 Organic Chemistry for Life Sciences II (w/lab)	4(6)	
Prerequisite: MTH 110 or equivalent		Prerequisite: CHM 241		
PSY 330 Foundations of Behavioral Neuroscience	3	² MTH 123 Trigonometry	3	
³ Elective	1	Prerequisite: MTH 122 or assignment through Grand Valley		
	_	math placement (MTH 122 may be taken concurrently)		
		Gen Ed-Social and Behavioral Sciences-SOC 101	3	
		³ Elective	1	
Total	15	Total	15	
Year Three				
CHM 461 Biochemistry I	4	BIO 355 or 375 Genetics + BIO 376 Genetics Laboratory	4(6)	
Prerequisite: CHM 242 or CHM 247 and CHM 248		BIO 375 Prerequisites: BIO 120 or CMB 155 and 156		
PHY 220 General Physics I (w/lab & discussion)	5 <i>(7)</i>	BIO 376 Prerequisites: BIO 375 or 355 (either may be taken		
Prerequisites: MTH 122 and MTH 123		concurrently)		
⁴ BMS 391 Laboratory in Human Physiology	2 (3)	PHY 221 General Physics II (w/lab & discussion)	5 <i>(7)</i>	
Prerequisite: BMS 290 or 251 and two semesters of chemistry		Prerequisites: PHY 220		
⁶ PSY 300 (SWS)	3	PSY 350 Psychology Research and Data Applications	3	
³ Elective	1	Gen Ed-Historical Analysis	3	
Total	15	Total	15	
Year Four				
PSY 370/375/431/432-Advanced Psychology Elective	3	PSY 492 Advanced General: Capstone	3	
BIO 352 Animal Behavior (w/lab)	3 <i>(5)</i>	PSY 435 Advanced Neuroscience and Behavior	3	
Gen Ed-Philosophy and Literature	3	Gen Ed-U.S. Diversity	3	
⁶ Issues + SWS	3	Gen Ed – Arts (if still needed)	3	
Gen Ed-Global Perspectives	3	Issues	3	
Total	15	Total	15	

¹ CMB 155+156 can sub for BIO 120 for those students interested in research (with advisor approval). Preprofessional students should take CHM 115+116 instead of CHM 109.

² For students with the Advanced Waiver for Mathematics based on ACT/SAT scores, it is **STRONGLY RECOMMENDED** that proficiency in MTH 123 – Trigonometry – be demonstrated by either taking the MTH 123 course or by achieving a passing score on the GVSU math placement test **PRIOR** to taking PHY 220 and 221. Students who have AP/IB/dual enrollment credit for MTH 201 (Calculus I), or complete the MTH 122 and 123 proficiency tests, only need to complete STA 215. MTH 124 and MTH 201 will substitute for MTH 122 and MTH 123. **To take the Math Proficiency Tests online, visit: gvsu.edu/s/mv**

³ Students must have a minimum of 120 credits to graduate with 58 of the 120 credits being from a senior level institution and the final 30 of the 120 credits completed at GVSU. Elective refers to any course that will help meet these requirements.

⁴BMS 208, 290, and 391 substitutes for BMS 250, and CHM 241 counts in the Behavioral Neuroscience Electives for Preprofessional Students

⁵ Students who self-place into WRT 120 should take this course in the fall semester and then take WRT 130 in the winter semester of their first year. Students who self-place into WRT 150 can take it in either semester during their first year. Students will not need to take WRT 150 if they have earned credit for the course through AP/Dual Enrollment. A grade of C or better is required in WRT 130 or 150 to satisfy the WRT requirement at GVSU.

⁶ Students must complete two courses with an SWS attribute.

Behavioral Neuroscience Major (50 credits)				
Psychology Courses (21 credits)				
— PSY 350 Psychology Research and Data Applications (3) Prerequisites: PSY 101, STA 215, PSY 300 (PSY 300 may be taken concurrently) PSY 435 Advanced Neuroscience and Behavior (3) Prerequisites: PSY 330 PSY 492 Advanced General: Capstone (3) Prerequisite: Senior standing and major in Psychology or Behavioral				
PSY 370 Cognitive NeurosciencePSY 431 NeuropsychologyPSY 375 Comparative PsychologyPSY 432 Psychopharmacology				
Chemistry Courses (4-9 Credits) ²				
Choose one of the following: CHM 109 Introductory Chemistry (4) CHM 115 Principles of Chemistry (4) Prerequisite: High school chemistry, MTH 110 or MTH 122 or MTH 125 or MTH 201 AND CHM 116 Principles of Chemistry (5) Prerequisite: CHM 115 and (MTH 122 or MTH 124 or MTH 201) Biomedical Science Courses (4) BMS 250 Anatomy and Physiology I (4) ⁴ Prerequisite: BIO 120 Introductory Statistics Course (3) STA 215 Introduction to Statistics (3)				
Prerequisite: MTH 110 or equivalent nce Electives (6 credits)				
Each course must be taken from different departments. Additional pre-regs may be required				
— Elective(3) PHY 220 General Physics I (5) PSY 301 Child Development (3) PSY 303 Psychopathology (3) PSY 357 Psychology of Language (3) PSY 361 Perception (3) PSY 364 Life Span Development (3) PSY 365 Cognition (3) PSY 420 Theories of Personality (3) I both count in the Behavioral Neuroscience Elective category				

Declaring the Behavioral Neuroscience Major:

- 1. In myBanner, select "Student" > "Student Records" > "Change Major" > "Change Major 1/Program"
- 2. Choose "Behavioral Neuroscience-BS" from the drop-down box.
- 3. Click "Submit" and then "Change to New Program"
- **4.** Declare **"PreProfessional Preparation"** as your SECOND MAJOR if you are planning on medical, dental, pharmacy, chiropractic, podiatry, or optometry school.

General Education Overlap

General Education Categories fulfilled by the Biomedical Sciences Major:			
Life Sciences with Lab: BIO 120	Physical Sciences with Lab: CHM 115		
Mathematical Sciences: STA 215, MTH 122, MTH 123	Social and Behavioral Sciences: PSY 101 and SOC 101		
Supplemental Writing Skills (SWS)-PSY 300			

It is imperative to meet with your faculty advisor and an advisor in the CLAS Academic Advising Center regularly. CLAS Academic Advising Center: C-1-120/140 MAK, 616-331-8585; schedule an appointment: www.gvsu.edu/navigate

Pre-Professional Students

(Pre-Chiropractic, Pre-Dental, Pre-Medical, Pre-Optometry, Pre-Pharmacy, Pre-Podiatry, & Pre-Veterinary) To find more information on Pre-Professional programs, visit www.gvsu.edu/clasadvising/preprofessional