



## ACCELERATED PLAN

# Bachelor of Science in Neuroscience (BS) to Master of Science in Neuroscience (MS)

FALL COURSES		CREDITS		SPRING COURSES		CREDITS		SUMMER, TRANSFER AND PRE-CU COURSES		CREDITS	
RSP: Intro to Collegiate Life.....	0.5	RSP: Intro to Collegiate Life.....	0.5	RSP: Intro to Collegiate Life.....	0.5	PHR 790 Research Rotations.....	2	PHR 797 Directed Independent Research ....	6	PHR 797 Directed Independent Research ....	6
Critical Issues.....	3	Math Reasoning .....	3	Biblical Traditions .....	3						
Composition.....	3	Philosophy .....	3	Global Perspectives.....	3						
Oral Communication.....	1	CHM 205 General Chemistry II.....	3	BIO 449 Physiology -OR-							
CHM 203 General Chemistry I.....	3	CHM 206 General Chemistry Lab II.....	1	PHA 404 Human Physiology*** .....	3						
CHM 204 General Chemistry Lab I.....	1	BIO 202 General Biology II.....	3	PSY 437 Behavioral Neuroscience.....	3						
BIO 201 General Biology I.....	3	BIO 206 General Biology Lab.....	1	PHY 202 General Physics II.....	3						
BIO 205 General Biology Lab.....	1	PSY 201 Intro Psychology .....	3	PHY 206 General Physics Laboratory II.....	1						
<b>TERM SUBTOTAL: .....</b>	<b>15.5</b>	<b>TERM SUBTOTAL: .....</b>	<b>17.5</b>	<b>TERM SUBTOTAL: .....</b>	<b>16</b>	<b>TERM SUBTOTAL: .....</b>	<b>2</b>	<b>TERM SUBTOTAL: .....</b>	<b>6</b>	<b>TERM SUBTOTAL: .....</b>	<b>156</b>
Christian Tradition .....	3			Fine Art.....	3						
Ethics.....	1			BIO 317 Genetics (recommended) .....	3						
BIO 362 Cell Structure and Function** .....	3			CHM 371 Biochemistry (if prehealth)**							
CHM 321 Organic Chemistry I.....	3			-OR- Elective .....	3						
CHM 322 Organic Chemistry I Lab .....	1			PHL 424 Philosophy of the Mind.....	3						
PHY 201 General Physics I.....	3			PHR 350 Intro to Neuropharmacology .....	3						
PHY 205 General Physics Laboratory.....	1			Non-major Elective Credit.....	3						
<b>TERM SUBTOTAL: .....</b>	<b>15</b>			<b>TERM SUBTOTAL: .....</b>	<b>18</b>						
Foreign Language .....	4										
Literature .....	3			Ultimate Questions.....	3						
Statistics .....	3			NES 510 Neurophysiology Lab.....	3						
Non-major Elective Credit.....	3			BIO 567 Current Topics in Neuroscience.....	3						
BIO 462 Neuro Lecture .....	3			NES 500 Intro to Clinical Neuroscience.....	4						
BIO 463 Neuro Lab .....	1			NES 592 Neuroscience							
<b>TERM SUBTOTAL: .....</b>	<b>17</b>			Capstone/Journal Club.....	1						
Intersections .....	3			PHR 797 Directed Independent Research ....	2						
Non-major Elective Credit.....	3			<b>TERM SUBTOTAL: .....</b>	<b>16</b>						
NES 566 Pharmacology of Drugs and Abuse.....	4										
BMS 667 Developmental Biology.....	4										
IDC 601 Research Conduct.....	1										
PHR 797 Directed Independent Research ....	2										
<b>TERM SUBTOTAL: .....</b>	<b>17</b>										
PHR 760 Research Rounds.....	1										
PHR 791 Research Seminar .....	1										
PHR 797 Directed Independent Research ....	6										
<b>TERM SUBTOTAL: .....</b>	<b>8</b>										

**GRAND TOTAL:.....156**

111 Undergraduate + 45 Graduate Credit Hours  
12 credit hours used by both BS and MS Degree



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# Bachelor of Science in Neuroscience (BS) to Master of Science in Neuroscience (MS)

CORE REQUIREMENTS	CREDITS	COURSES IN MAJOR THAT SATISFY THE CORE REQUIREMENT	MAJOR	CREDITS
<b>MAGIS CORE—FOUNDATIONS</b>				
Composition.....	3			
Critical Issues.....	3			
Oral Communication.....	1			
Math Reasoning.....	3			
Philosophical Ideas.....	3			
Christian Tradition.....	3			
<b>MAGIS CORE—EXPLORATIONS</b>				
Understanding Natural Science.....	3	Gen BIO/Gen CHM Courses		
Understanding Social Science.....	3	PSY 201 Intro Psychology		
Global Perspectives.....	3			
Literature.....	3			
Ethics.....	3			
Biblical Tradition.....	3			
Fine Arts.....	3			
Foreign Language.....	4			
<b>MAGIS CORE—INTEGRATIONS</b>				
Intersections.....	3	PHL 404 -OR- PHL 425		
Doing Natural Science.....	1	Gen BIO/Gen CHM Labs		
Doing Social Science.....	3	PSY 370 -OR- another Doing Social Science		
Ultimate Questions.....	3			
<b>DESIGNATED COURSES</b>				
Oral Communication		NES 592 Neuroscience Senior Seminar		
Written Communication		NES 510 Neurophysiology Lab		
Statistical Reasoning		Statistics (BIO 310, MTH 360, MTH 361 -OR- PSY 370)		
Ethics*				
Technology		BIO 463 Neurobiology Lab		
<p>Masters classes shown in <b>LIGHT BLUE</b> will be taken while an undergraduate student. Masters classes shown in <b>GRAY</b> will be taken while a graduate student.</p> <p><b>OTHER NOTES</b></p> <p>This plan is an example of Creighton's <b>Accelerated Bachelor's to Master's</b> program and how one might accomplish this path. Please note, each student will have a unique background and set of circumstances that must be considered in their plan.</p> <p>Electives: All electives are NOT necessarily offered the same semester each year. Students interested in particular electives should make sure that the requirements have been met.</p> <p>Study abroad: May be an option for students BUT they must communicate with their advisor and have any course(s) approved for transfer credit through the director and/or the registrar.</p> <p>*Designated Ethics: Students can take BIO 467/BMS 667, HAP/PHL 404, HAP/PHL 457, -OR- NES 464 to fulfill course requirement needed for graduation.</p> <p>**Students can choose to take BIO 362 Cell Structure and Function -OR- CHM 371 Biochemistry as a required elective course. CHM 371 is highly encouraged if a student is pre-health.</p> <p>***Neuroscience Majors ARE allowed into Physiology and provided overrides for the Junior Standing Restriction in this course. Neuroscience majors can take PHA 404 Human Physiology if granted an override.</p> <p>Human Physiology and Pharmacology courses follow the graduate academic schedule. These final exams will also follow the graduate schedule.</p>				
<b>PRE-REQUISITE AND SUPPORT COURSES</b>				
			BIO 201 Gen Bio: Organismal and Population.....	3
			BIO 202 Gen Bio: Cellular and Molecular ..	3
			BIO 205 Gen Bio: Organismal and Population Lab.....	1
			BIO 206 Gen Bio: Cellular and Molecular ...	1
			PSY 201 Intro Psychology.....	3
			CHM 203 General Chemistry I.....	3
			CHM 204 General Chemistry I Lab.....	1
			CHM 205 General Chemistry II -OR- CHM 285 Advanced General Chemistry I...1	
			CHM 206 General Chemistry II Lab -OR- CHM 286 General Chemistry Analysis Lab ...1	
			CHM 321 Organic Chemistry.....	3
			CHM 322 Organic Chemistry Lab.....	1
			PHY 201 General Physics I.....	3
			PHY 205 Physics Lab I.....	1
			PHY 202 General Physics II.....	3
			PHY 206 Physics Lab II.....	1
			<b>SUBTOTAL:.....</b>	<b>31</b>
<b>NEUROSCIENCE MAJOR</b>				
			PSY 437 Behavioral Neuroscience.....	3
			BIO 462 Neurobiology Lecture.....	3
			BIO 463 Neurobiology Lab.....	1
			PHR 350 Intro to Neuropharmacology.....	3
			HAP/PHL 457 Biomedical Ethics -OR- HAP/PHL 404 Bioethics and Society -OR- PHL 425 Sciences, Ethics and Society.....	3
			PHL 424 Philosophy of the Mind.....	3
			NES 510 Neurophysiology Lab.....	2
			NES 592 Senior Seminar.....	1
			BIO 362 Cell Structure and Function -OR- CHM 371 Biochemistry (if prehealth)**....	3
			BIO 449 Physiology -OR- BMS 404 Human Physiology***.....	3
			Statistics (BIO 310, MTH 360, MTH 361 -OR- PSY 370).....	3-4
			<i>At least 12 hours of electives</i>	
			NES 500 Intro to Clinical Neuroscience.....	3
			NES 566 Pharmacology of Drugs and Abuse.....	3
			Two Electives.....	6
			<b>MAJOR SUBTOTAL:.....</b>	<b>28-29</b>