Neuroscience (B.S.) – Pre-Medical Track 2025-2026 Academic Catalog, Bachelor of Science – Neuroscience, Pre-Medical Track

Academic Core for B.S.

44 Hours Neuroscience

76 Hours

CHRISTIAN STU	DIES	6
CSBS 1311	Engaging the Old Testament	3
CSBS 1312	Engaging the New Testament	3
ENGLISH		9
ENGL 1321	Rhetoric & Composition I	3
ENGL 1322	Rhetoric & Composition II	3
ENGL	Literature	3
A grade of a "C" o	r higher is required in ENGL 1321 and ENGL 1322.	
	RT SCIENCE - SELECT TWO DIFFERENT COURSES	2
EXAC	Activity Course	1
EXAC	Activity Course	1
FINE ARTS - S	ELECT ONE	3
ARTS 1310	Drawing I	3
ARTS 1320	Design	3
ARTS 1350	Art Appreciation	3
ARTS 2360	Ceramics I	3
COMM 2335	Film Appreciation	3
FINA 2330	Exploring the Fine Arts	3
MUSI 1340	Music Appreciation	3
THEA 2350	Theatre Appreciation	3
WORLD CULTU	RES – SELECT ONE	3
ARTS 2354	World Art	3
EXSS 2353	Lifespan Nutrition	3
GLBL 2310	Cultural Immersion	3
HIST 1311	History of World Civilizations to 1500	3
HIST 1312	History of World Civilizations since 1500	3
HIST 2350	An Introduction to the Politics and Culture of Ancie Greece and Rome	nt 3
HUMA 2355	Foundations of the Humanities	3
MUSI 2358	World Music	3
PHIL 2315	Introduction to Philosophy	3
LAB SCIENCE		8
CHEM 1410	General Chemistry I	4
CHEM 1420	General Chemistry II	4
PUBLIC SPEAKI	NG	3
COMM 1320	Public Speaking	3
		-
MATHEMATICS	An of the	3
MATH 2303	Statistics	3
RESEARCH MET	THODS OR INTERNSHIP	0
Fulfilled in the m	ajor	
SOCIAL SCIENC	E	3
PSYC 1301	- General Psychology	3
US HISTORY OF	R US GOVERNMENT – SELECT ONE	3
HIST 2311	American History to 1877	3
HIST 2312	American History since 1877	3
POLS 2305	United States Government	3
POLS 2306	Texas State and Local Government	3
FRESHMAN SEI	MINAR	1
UMHB 1101	Freshman Seminar	1
CHAPEL-1 to 4 a	redits	
UMHB 1002	Chapel	
Fine Arts Experier	nce – 2 to 8 credits	
UMHB 1005	Fine Arts Experience	_
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CIENCE MAJOR REQUIRED COURSES	46
Biology for Science Majors I	3
Biology for Science Majors I Lab	1
Biology for Science Majors II	3
Biology for Science Majors II Lab	1
Human Anatomy & Physiology I	3
Human Anatomy & Physiology I Lab	1
Human Anatomy & Physiology II	3
Human Anatomy & Physiology II Lab	1
Genetics	3
Genetics Lab	1
Neuroscience Foundations	3
Biological Basis of perception & Movement	3
Cognitive Neuroscience	3
The Addicted Brain	3
Neuroscience Seminar	1
Neuroscience Capstone Seminar	1
Clinical Neuropathology	3
College Algebra or higher	3
Abnormal Psychology	3
TRACK	26
Research Methods	1
Research Methods II	1
Microbiology	3
Microbiology Lab	1
Organic Chemistry I	4
Organic Chemistry II	4
Biochemistry	4
General Physics I	4
General mysics i	
	Biology for Science Majors I Biology for Science Majors I Lab Biology for Science Majors II Biology for Science Majors II Lab Human Anatomy & Physiology I Human Anatomy & Physiology I Lab Human Anatomy & Physiology II Human Anatomy & Physiology II Human Anatomy & Physiology II Lab Genetics Genetics Lab Neuroscience Foundations Biological Basis of perception & Movement Cognitive Neuroscience The Addicted Brain Neuroscience Seminar Neuroscience Seminar Neuroscience Seminar Neuroscience Seminar Neuroscience Capstone Seminar Clinical Neuropathology College Algebra or higher Abnormal Psychology TRACK Research Methods Research Methods II Microbiology Lab Organic Chemistry I Biochemistry

Electives

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4 Hours
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4

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Electives
You need 4 additional hours to reach your minimum 120 required hrs.
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Total Hours

Academic Core for B.S.		
B.S. Neuroscience Major Required Courses	46	
Pre-Medical Track	26	
Electives	4	
Total hours required for graduation	120	
Additional Graduation Requirements		
Minimum total earned hours	120	
Minimum Upper Level hours	36	
Minimum hours taken at UMHB	30	
Minimum Upper Level hours taken at UMHB	24	
Minimum cumulative GPA	2.00	

Neuroscience (B.S.) – Pre-Medical Track

2025-2026 Academic Catalog, Bachelor of Science – Neuroscience, Pre-Medical Track – DEGREE SEQUENCE

FRESHMAN FALL		15 Hours
BIOL 1350/1150	Biology for Science Majors I	4
CHEM 1410	General Chemistry I	4
MATH 1306	College Algebra	3
ENGL 1321	Rhetoric & Composition I	3
UMHB 1101	Freshman Seminar	1
UMHB 1002	Chapel	0
UMHB 1005	Fine Arts Experience	0

SOPHOMORE FALL		15 Hours
BIOL 2380/218	4	
NSCI 3310	Neuroscience Foundations*	3
NSCI 4180	Neuroscience Seminar	1
CHEM 3410	Organic Chemistry I	4
ENGL	Literature	3
UMHB 1002	Chapel	0
UMHB 1005	Fine Arts Experience	0

JUNIOR FALL		16 Hours
BIOL 2340/2140) Human A & P I	4
BIOL 3310/3110 Genetics		4
PHYS 2411	General Physics I	4
NSCI 3330	Cognitive Neuroscience*	3
NSCI 4180	Neuroscience Seminar	1
UMHB 1005	Fine Arts Experience	0

SENIOR F	ALL		14 Hours
		Electives (BIOL 3375/3175 recommended)	4
COMM 13	20	Public Speaking	3
EXAC		Activity Course	1
		World Cultures	3
CSBS 1312	1	Engaging the Old Testament	3
UMHB 10	05	Fine Arts Experience	0
		edical school interviews fore Christmas	

• All courses in BOLD are offered only in the Fall or Spring semester as indicated.

• All courses with an asterisk are offered online through LCMC/RIZE

• Precalculus is a corequisite for PHYS 2411/2412. You must have an ACT math score of at least 24 or a New SAT math score of at least 570 to be able to take this as your first math class at UMHB. Otherwise, you must take MATH 1306 (College Algebra) first. Enrolling in College Algebra requires ACT Math ≥22, New SAT Math ≥530, or Math Review.

FRESHMAN SPRING		15 Hours
BIOL 1360/1160	Biology for Science Majors II	4
CHEM 1420	General Chemistry II	4
PSYC 1301	General Psychology	3
ENGL 1322	Rhetoric & Composition II	3
EXAC	Activity Course	1
UMHB 1002	Chapel	0
UMHB 1005	Fine Arts Experience	0

SOPHOMORE SI	16 Hours	
BIOL 2170/2171	Research Methods	2
NSCI 3320	Biol Basis of Percept. and Movement*	3
NSCI 4180	Neuroscience Seminar	1
CHEM 3420	Organic Chemistry II	4
MATH 2303	Statistics	3
	Fine Arts	3
UMHB 1002	Chapel	0
UMHB 1005	Fine Arts Experience	0

JUNIOR SPRING	ì	16 Hours
BIOL 2341/2141	Human A&P II	4
CHEM 4430	Biochemistry	4
PHYS 2412	General Physics II	4
NSCI 4180	Neuroscience Seminar	1
NSCI 4320	Clinical Neuropathology*	3
UMHB 1005	Fine Arts Experience	0
	ICAT or DAT in Spring of Junior year to Medical schools in May	

SENIOR SPR	NG	13 Hours
BIOL 4340	The Addicted Brain	3
NSCI 4195	Neuroscience Capstone Seminar	1
PSYC 3315	Abnormal Psychology	3
CSBS 1312	Engaging the New Testament	3
	US History or Government	3
UMHB 1005	Fine Arts Experience	0
	eceive acceptance letters from ledical schools to start next Fall	

Total Credit Hours: 120