

Neuroscience (B.S.) – Biochemical Track

2025-2026 Academic Catalog, Bachelor of Science – Neuroscience, Biochemical Track

Academic Core for B.S.

44 Hours

CHRISTIAN STUDIES		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" or higher is required in ENGL 1321 and ENGL 1322.

EXERCISE & SPORT SCIENCE – SELECT TWO DIFFERENT COURSES		2
EXAC	Activity Course	1
EXAC	Activity Course	1

FINE ARTS – SELECT 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 CULTURES – 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 Ancient Greece and Rome	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 SPEAKING		3
COMM 1320	Public Speaking	3

MATHEMATICS		3
MATH 2303	Statistics	3

RESEARCH METHODS OR INTERNSHIP		0
Fulfilled in the major		

SOCIAL SCIENCE		3
PSYC 1301	General Psychology	3

US HISTORY OR 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 SEMINAR		1
UMHB 1101	Freshman Seminar	1

CHAPEL – 1 to 4 credits

UMHB 1002	Chapel
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Fine Arts Experience – 2 to 8 credits

UMHB 1005	Fine Arts Experience
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Neuroscience

56 Hours

B.S. NEUROSCIENCE MAJOR REQUIRED COURSES 46

BIOL 1350	Biology for Science Majors I	3
BIOL 1150	Biology for Science Majors I Lab	1
BIOL 1360	Biology for Science Majors II	3
BIOL 1160	Biology for Science Majors II Lab	1
BIOL 2340	Human Anatomy & Physiology I	3
BIOL 2140	Human Anatomy & Physiology I Lab	1
BIOL 2341	Human Anatomy & Physiology II	3
BIOL 2141	Human Anatomy & Physiology II Lab	1
BIOL 3310	Genetics	3
BIOL 3110	Genetics Lab	1
NSCI 3310	Neuroscience Foundations	3
NSCI 3320	Biological Basis of perception & Movement	3
NSCI 3330	Cognitive Neuroscience	3
BIOL 4340	The Addicted Brain	3
NSCI 4180	Neuroscience Seminar	1
NSCI 4180	Neuroscience Seminar	1
NSCI 4180	Neuroscience Seminar	1
NSCI 4195	Neuroscience Capstone Seminar	1
NSCI 4320	Clinical Neuropathology	3
MATH 1306	College Algebra or higher	3
PSYC 3315	Abnormal Psychology	3

BIOCHEMICAL TRACK 10

BIOL 2170	Research Methods	1
BIOL 2171	Research Methods Lab	1
CHEM 3410	Organic Chemistry I	4
CHEM 4430	Biochemistry	4

Electives

20 Hours

ELECTIVES 20

You need 20 additional hours to reach your minimum 120 required hrs.

Total Hours

Academic Core for B.S.	44
B.S. Neuroscience Major Required Courses	46
Biochemical Track	10
Electives	20
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.) – Biochemical Track

2025-2026 Academic Catalog, Bachelor of Science – Neuroscience, Biochemical 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

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 FALL 14 Hours

BIOL 2170/2171	Research Methods	2
NSCI 3310	Neuroscience Foundations*	3
NSCI 4180	Neuroscience Seminar	1
CHEM 3410	Organic Chemistry I	4
ENGL	Literature	3
EXAC	Activity Course	1
UMHB 1002	Chapel	0
UMHB 1005	Fine Arts Experience	0

SOPHOMORE SPRING 16 Hours

COMM 1320	Public Speaking	3
NSCI 3320	Biol Basis of Percept. and Movement*	3
NSCI 4180	Neuroscience Seminar	1
	Elective	3
MATH 2303	Statistics	3
	Fine Arts	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
	Electives	4
NSCI 3330	Cognitive Neuroscience*	3
NSCI 4180	Neuroscience Seminar	1
UMHB 1005	Fine Arts Experience	0

JUNIOR SPRING 15 Hours

BIOL 2341/2141	Human A&P II	4
	Electives	3
	Electives	4
NSCI 4180	Neuroscience Seminar	1
NSCI 4320	Clinical Neuropathology*	3
UMHB 1005	Fine Arts Experience	0

SENIOR FALL 14 Hours

	Electives (BIOL 3375/3175 recommended)	4
CHEM 4430	Biochemistry	4
CSBS 1311	Engaging the Old Testament	3
	World Cultures	3
UMHB 1005	Fine Arts Experience	0

SENIOR SPRING 15 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
	Elective	2
	US History or Government	3
UMHB 1005	Fine Arts Experience	0

•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

Total Credit Hours: 120