



ACADEMIC MAP TO MEDICAL SCHOOL

2025-2026

START HERE



NORTHWESTERN STATE
UNIVERSITY OF LOUISIANA

Biology - Applied Microbiology
Medical and Health Profession conc.
www.nsula.edu/sciences/

YEAR 1	SEMESTER 1	Milestones	Grade	Credits	Minimum Grade	Electives	Credits
	ENGL 1010 – Composition & Rhetoric I				C	Concentration	
	MATH 1020 – College Algebra	🚩			C	Biology	
	BIOL 1010 – Biological Principles I	🧪	🚩		C	Academic	
	BIOL 1011 – Biological Principles I Lab	🧪	🚩		C		
	CHEM 1030 – General Chemistry I	🧪	🚩		C		
	CHEM 1031 – General Chemistry I Lab	🧪	🚩		C		
	UNIV 1000 – The University Experience				C		

Semester Credits _____

SEMESTER 2	Milestones	Grade	Credits	Minimum Grade	Electives	Credits
ENGL 1020 – Composition & Rhetoric II				C	Concentration	
MATH 1090 – Trigonometry	🚩			C	Biology	
BIOL 1020 – Biological Principles II				C	Academic	
BIOL 1021 – Biological Principles II Lab				C		
CHEM 1040 – General Chemistry II	🧪	🚩		C		
CHEM 1041 – General Chemistry II Lab	🧪	🚩		C		
COMM 1010 or 2500 or BUAD 2200 or PHIL 1010				C		

Semester Credits _____

Total Credits _____

YEAR 2	SEMESTER 1	Milestones	Grade	Credits	Minimum Grade	Electives	Credits
	ENGL 2110 – Introduction to Lit.				C	Concentration	
	CHEM 3010 – Organic Chemistry I	🧪	🚩		C	Biology	
	CHEM 3011 – Organic Chemistry I Lab	🧪	🚩		C	Academic	
	PHYS 2030 – General Physics I or PHYS 2510 – Gen. Analytical Physics I	🧪	🚩		C		
	PHYS 2031 – General Physics I Lab or PHYS 2511 – Gen. Analytical Physics Lab	🧪			C		
	BIOL 3250 – Cell Biology	🚩			C		

Semester Credits _____

Total Credits _____

SEMESTER 2	Milestones	Grade	Credits	Minimum Grade	Electives	Credits
PSYC 1010 – Intro. Psychology	🧪			C	Concentration	
CHEM 3020 – Organic Chemistry II	🧪			C	Biology	
CHEM 3021 – Organic Chemistry II Lab	🧪			C	Academic	
PHYS 2040 – General Physics II or PHYS 2520 – Gen. Analytical Physics II	🧪			C		
PHYS 2041 – General Physics II Lab or PHYS 2521 – Gen. Analytical Physics Lab	🧪			C		
BIOL 2060 – Microbiology I				C		
BIOL 2061 – Microbiology I Lab				C		



Start Shadowing

Semester Credits _____

Total Credits _____

YEAR 3	SEMESTER 1	Milestones	Grade	Credits	Minimum Grade	Electives	Credits
	CHEM 4040 – General Biochemistry I	🧪			C	Concentration	
	BIOL 3310 – Human Anatomy & Physiology I	🧪	🚩		C	Biology	
	BIOL 3311 – Human Anatomy & Physiology I Lab	🧪	🚩		C	Academic	
	BIOL 3270 – Genetics	🧪			C		
	BIOL 3271 – Genetics Lab	🧪			C		
	MATH 2010 – Survey of Calculus or MATH 2100 – Analytical Geometry and Calculus I	🧪			C		



Apply to PPSAC

Semester Credits _____

Total Credits _____

SEMESTER 2	Milestones	Grade	Credits	Minimum Grade	Electives	Credits
HIST 1010 or 1020 or 2010 or 2020				C	Concentration	
BIOL 3320 – Human Anatomy & Physiology II	🧪			C	Biology	
BIOL 3321 – Human Anatomy & Physiology II Lab	🧪			C	Academic	
BIOL 2090 & 2091 – Microbiology II with Lab	🧪			C		
Biology elective				C		



Take MCAT

Apply Med School during Summer

Semester Credits _____

Total Credits _____



Complete Shadowing (80hrs accumulated)

YEAR 4	SEMESTER 1	Milestones	Grade	Credits	Minimum Grade	Electives	Credits
	BIOL 4970 or 4990 – Capstone	🚩			C	Concentration	
	FA 1040 – Exploring the Arts				C	Biology	
	Biomedical concentration elective				C	Academic	
	Biology elective				C		
	Academic elective				C		

Semester Credits _____

Total Credits _____

SEMESTER 2	Milestones	Grade	Credits	Minimum Grade	Electives	Credits
BIOL 4995 – Scientific Communication				C	Concentration	32
Social Science elective				C	Biology	10
BIOL 4930 Microbial Phys				C	Academic	22
Biology elective				C		
Academic elective				C		

*This is for biomedical concentration, for other concentrations or majors, consult with your advisor for any suggested changes.

Semester Credits _____

Total Credits **120**

*Requirements for LSU Health. Verify requirements for schools of your choice

YOU'VE FINISHED!



Professional School Required



Milestone

Should be taken in order to stay on track for graduation and MCAT readiness.



Biomedical Concentration Electives



Academic Electives

This map is specifically for Biomedical Concentration students. For those in other concentrations or majors, we recommend you consult with your advisor for any necessary adjustments.



GRADUATION REQUIREMENTS

Semester Credits = 120 | Biomedical Concentration Electives = 32 | Biology electives = 10 | Academic electives = 22

Courses taken outside of a student's degree program are not eligible for Title IV federal financial aid (grants and loans). However, elective courses are eligible for Title IV aid if they are required and included in the student's program of study. Once a student has completed all required elective credits, any additional elective courses taken beyond the program's requirements will not be eligible for Title IV funding.