ACADEMIC MAP TO MEDICAL SCHOOL

2026-2027

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	Min. Grade
ENGL 1010 – Composition & Rhetoric I			3	C
MATH 1020 – College Algebra	⚑		3	C
BIOL 1010 – Biological Principles I	⚑		3	C
BIOL 1011 – Biological Principles I Lab	⚑		1	C
CHEM 1030 – General Chemistry I	⚑		3	C
CHEM 1031 – General Chemistry I Lab	⚑		1	C
UNIV 1000 – The University Experience			1	C

Electives	Credits
Concentration	
Biology	
Academic	

Semester Credits _____

SEMESTER 2	Milestones	Grade	Credits	Min. Grade
ENGL 1020 – Composition & Rhetoric II			3	C
MATH 1090 – Trigonometry	⚑		3	C
BIOL 1020 – Biological Principles II			3	C
BIOL 1021 – Biological Principles II Lab			1	C
CHEM 1040 – General Chemistry II	⚑		3	C
CHEM 1041 – General Chemistry II Lab	⚑		1	C
Any of these count: COMM 1010 or 2500 or BUAD 2200 or PHIL 1010			3	C

Electives	Credits
Concentration	
Biology	
Academic	

Semester Credits _____

Total Credits _____

YEAR 2

SEMESTER 1	Milestones	Grade	Credits	Min. Grade
ENGL 2110 – Introduction to Lit.			3	C
CHEM 3010 – Organic Chemistry I	⚑		3	C
CHEM 3011 – Organic Chemistry I Lab	⚑		1	C
PHYS 2030 – General Physics I or PHYS 2510 – Gen. Analytical Physics I ✚	⚑		3	C
PHYS 2031 – General Physics I Lab or PHYS 2511 – Gen. Analytical Physics Lab ✚			1	C
BIOL 3250 – Cell Biology	⚑		3	C

Electives	Credits
Concentration	
Biology	
Academic	

Semester Credits _____

Total Credits _____

SEMESTER 2	Milestones	Grade	Credits	Min. Grade
PSYC 1010 – Intro. Psychology			3	C
CHEM 3020 – Organic Chemistry II			3	C
CHEM 3021 – Organic Chemistry II Lab			1	C
PHYS 2040 – General Physics II or PHYS 2520 – Gen. Analytical Physics II ✚			3	C
PHYS 2041 – General Physics II Lab or PHYS 2521 – Gen. Analytical Physics Lab ✚			1	C
BIOL 2060 – Microbiology I			3	C
BIOL 2061 – Microbiology I Lab			1	C

Electives	Credits
Concentration	
Biology	
Academic	

Start Shadowing

Semester Credits _____

Total Credits _____

YEAR 3

SEMESTER 1	Milestones	Grade	Credits	Min. Grade
CHEM 4040 – General Biochemistry I			3	C
BIOL 3310 – Human Anatomy & Physiology I ✚	⚑		3	C
BIOL 3311 – Human Anatomy & Physiology I Lab ✚	⚑		1	C
BIOL 3270 – Genetics ✚			3	C
BIOL 3271 – Genetics Lab ✚			1	C
MATH 2010 – Survey of Calculus or MATH 2100 – Analytical Geometry and Calculus I			3	C

Electives	Credits
Concentration	
Biology	
Academic	

Apply to PPSAC

Semester Credits _____

Total Credits _____

SEMESTER 2	Milestones	Grade	Credits	Min. Grade
HIST 1010 or 1020 or 2010 or 2020			3	C
BIOL 3320 – Human Anatomy & Physiology II ✚			3	C
BIOL 3321 – Human Anatomy & Physiology II Lab ✚			1	C
BIOL 2090 & 2091 – Microbiology II with Lab			4	C
Biology elective			3	C

Electives	Credits
Concentration	
Biology	
Academic	

Take MCAT

Apply Med School during Summer

Complete Shadowing (80hrs accumulated)

Semester Credits _____

Total Credits _____

YEAR 4

SEMESTER 1	Milestones	Grade	Credits	Min. Grade
BIOL 4970 or 4990 – Capstone	⚑		3	C
FA 1040 – Exploring the Arts			3	C
Biomedical concentration elective			3	C
Biology elective			3	C
Academic elective			3	C

Electives	Credits
Concentration	
Biology	
Academic	

Semester Credits _____

Total Credits _____

SEMESTER 2	Milestones	Grade	Credits	Min. Grade
BIOL 4995 – Scientific Communication			3	C
Social Science elective			3	C
BIOL 4930 Microbial Phys			3	C
Biology elective			3	C
Academic elective			3	C

Electives	Credits
Concentration	32
Biology	10
Academic	22

** 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 Shreveport School of Medicine. Verify requirements for schools of your choice.*

YOU'VE FINISHED!

Medical School Required

✚ Medical School Recommended

⚑ 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.

ACADEMIC MAP TO:

NORTHWESTERN STATE
UNIVERSITY OF LOUISIANA

START HERE

YEAR 1

SEMESTER 1	Milestones	Grade	Credits	Minimum Grade

Semester Credits _____

SEMESTER 2	Milestones	Grade	Credits	Minimum Grade

Semester Credits _____

Total Credits _____

YEAR 2

SEMESTER 1	Milestones	Grade	Credits	Minimum Grade

Semester Credits _____

Total Credits _____

SEMESTER 2	Milestones	Grade	Credits	Minimum Grade

Semester Credits _____

Total Credits _____

YEAR 3

SEMESTER 1	Milestones	Grade	Credits	Minimum Grade

Semester Credits _____

Total Credits _____

SEMESTER 2	Milestones	Grade	Credits	Minimum Grade

Semester Credits _____

Total Credits _____

YEAR 4

SEMESTER 1	Milestones	Grade	Credits	Minimum Grade

Semester Credits _____

Total Credits _____

SEMESTER 2	Milestones	Grade	Credits	Minimum Grade

Semester Credits _____

Total Credits _____

YOU'VE FINISHED!

MILESTONE

Major Electives

Academic Electives

GRADUATION REQUIREMENTS

Major Requirements = ____ | University Core/Support = ____ | Total Credits = ____

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.