ACADEMIC MAP TO B.S. IN MATHEMATICS - CONCENTRATION IN APPLIED MATHEMATICS

2025-2026

NORTHWESTERN STATE UNIVERSITY OF LOUISIANA

www.nsula.edu/mathematics

START HERE

YEAR 1

SEMESTER 1	Milestones	Grade	Credits	Minimum Grade
MATH 1010 – Introduction to Mathematics ∞	⚑		1	
MATH 2100 – Analytical Geometry and Calculus I ∞	⚑		5	
ENGL 1010 – Composition and Rhetoric I			3	
BIOL 1010 – Biological Principles I	⚑		3	
BIOL 1011 – Biological Principles Laboratory I	⚑		1	
FA 1040 – Exploring the Arts			3	
UNIV 1000 – The University Experience			1	

Semester Credits _____

SEMESTER 2	Milestones	Grade	Credits	Minimum Grade
MATH 2110 – Analytical Geometry and Calculus II ∞	⚑		5	
ENGL 1020 – Composition and Rhetoric II			3	
PHYS 2510 – General Analytical Physics I	⚑		3	
PHYS 2511 – General Analytical Physics I Laboratory	⚑		1	
COMM 1010 – Oral Communication			3	

Semester Credits _____

Total Credits _____

YEAR 2

SEMESTER 1	Milestones	Grade	Credits	Minimum Grade
MATH 2080 – Fundamentals of Proof ∞	⚑		3	
MATH 3130 – Analytical Geometry and Calculus III ∞	⚑		3	
CSC 1060 – Program Design I ∞	⚑		3	
PHYS 2520 -General Analytical Physics II ∞	⚑		3	
PHYS 2521 – General Analytical Physics II Laboratory ∞	⚑		1	
ENGL 2110 – Introduction to Literature			3	

Semester Credits _____

Total Credits _____

SEMESTER 2	Milestones	Grade	Credits	Minimum Grade
MATH 3090 – Linear Algebra I ∞	⚑		4	
MATH 3160 – Ordinary Differential Equations ∞	⚑		3	
CSC 2060 – Program Design II ∞			3	
CHEM 1030 – General Chemistry I	⚑		3	
CHEM 1031 – General Chemistry I Laboratory	⚑		1	

Semester Credits _____

Total Credits _____

YEAR 3

SEMESTER 1	Milestones	Grade	Credits	Minimum Grade
MATH 3100 – Modern Algebra I ∞	⚑		3	
MATH 4260 – Partial Differential Equations ∞			3	
CSC 3040 – 3D Print Design I			3	
ANTH 1510, 2020; ECON 2000; GEOG 1010, 1020; or PSCI 2010			3	
CHEM 3210 – Chemical Thermodynamics	⚑		3	

Semester Credits _____

Total Credits _____

SEMESTER 2	Milestones	Grade	Credits	Minimum Grade
MATH 4940 – Introduction to Mathematical Research ∞	⚑		2	
MATH 3170 – Applied Linear Algebra ∞			3	
CHEM 3220 – Chemical Kinetics and Quantum Mechanics			3	
BIOL 3060 – Biostatistics			3	
BIOL 3061 – Biostatistics Laboratory			1	
Academic Elective			3	

Semester Credits _____

Total Credits _____

YEAR 4

SEMESTER 1	Milestones	Grade	Credits	Minimum Grade
MATH 4950 – Mathematics – A Capstone Course ∞	⚑		4	
MATH 4100 – Discrete Mathematics ∞	⚑		3	
STAT 4270 – Mathematical Statistics I ∞	⚑		3	
PHYS 3900 – Special Topics in Physics			3	
HIST 1010, 1020, 2010, or 2020			3	

Semester Credits _____

Total Credits _____

SEMESTER 2	Milestones	Grade	Credits	Minimum Grade
STAT 4280 – Regression Analysis ∞			3	
EPSY 2020; PSYC 1010, 2050; or SOC 1010			3	
PHYS 4100 – Modern Physics			3	
Academic Elective			3	

Semester Credits _____

Total Credits 120

Must maintain a 2.0 GPA within Major and Concentration to graduate.

YOU'VE FINISHED!

- University Core Requirement
- ∞ Mathematics Major Requirement
- ⚑ MILESTONE
- Concentration Requirement
- Mathematics Major Elective
- Academic Elective

GRADUATION REQUIREMENTS

Major Requirements =45 | University Core/Support = 75 | Total Credits = 120

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.