



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