

Mathematics (B.A.)

2025-2026 catalog

Student Name: _____ ID Number: _____

Major Requirements

All classes must be completed with a C- grade or better. Each course may count only once towards the major. No more than 4 credits of internship may count towards the major. Students completing a major in Mathematics are not eligible for a minor in Mathematics. At least two MAT courses numbered 300 or above must be taken at Augsburg.

Term Completed/Planned	Grade	Credit	Course #	Title
Complete both Calculus I and Calculus II				
_____	_____	4	MAT145 and 145L: Calculus I	
_____	_____	4	MAT146 and 146L: Calculus II	
Complete both advanced discrete mathematics and linear algebra				
_____	_____	4	MAT302	Discrete Mathematical Structures
_____	_____	4	MAT315	Linear Algebra
Complete one (1) geometric perspective course				
_____	_____	4	MAT255	Multivariable Calculus
_____	_____	4	MAT335	Exploring Geometry
Complete one (1) theoretical structures course				
_____	_____	4	MAT350	Graph Theory
_____	_____	4	MAT360	Dynamical Systems
_____	_____	4	MAT370	Real Analysis
_____	_____	4	MAT380	Abstract Algebra
Complete one (1) MAT elective numbered 300 or above				
_____	_____	4		
Complete one (1) advanced mathematics elective numbered 350 or above, chosen from:				
_____	_____	4	MAT350	Graph Theory
_____	_____	4	MAT360	Dynamical Systems
_____	_____	4	MAT370	Real Analysis
_____	_____	4	MAT373	Probability Theory
_____	_____	4	MAT380	Abstract Algebra
_____	_____	4	MAT395	Topics
_____	_____	4	MAT399	Internship (or 4 credits of MAT 396, 397, 398)
_____	_____	4	MAT455	Numerical Mathematics and Computation
_____	_____	4	MAT465	Modeling and Differential Equations in Biological and Natural Sciences
_____	_____	4	MAT485	Visualizing Mathematics with 3D Printing
_____	_____	4	MAT499	Independent Study
Complete one (1) advanced elective, chosen from:				
_____	_____	4	DST elective numbered 300 or above	
_____	_____	4	ECO416	Mathematical Economics
_____	_____	4	An additional MAT elective numbered 300 or above	
_____	_____	4	PHY327	Special Functions of Mathematical Physics
Pass MAT491 in your final semester				
_____	_____	0	MAT491	Mathematics Colloquium