

Mathematics: Secondary Education (B.S.)

2023-2024 catalog

Major Requirements	n requireme	nts must he	met All clas	sses must be completed with a C- grade or better.	Each course may count only
once towards the major. No mo	ore than 4 c	redits of int	ernship may	count towards the major. Students completing a national state of the s	
Term Completed/Planned	Grade	Credit	Course #	Title	
	Calculus II				
Complete both Calculus I and C	Laiculus II	4	MAT145 a	nd 145L: Calculus I (NSM)	
		4		nd 146L: Calculus II (NSM)	
		•	1717 (1210 0	That I for calculas if (Nowl)	
Complete one (1) data analysis	course		DCT4C4		
		4	DST164	Introduction to Statistics (with R) (NSM) (recom	imended)
		4	MAT163	Introductory Statistics (offered infrequently)	
Complete one (1) computation	nal reasonin	g course			
		4	CSC165	Introduction to Computer Programming (Pytho	n)
		•	and 165L	maroduction to computer ring animaling (rytho	•••
Complete one (1) geometric pe	erspective c	ourse			
		4	MAT335	Exploring Geometry	
Complete both advanced discr	oto mathon	natics and li	inoar algobra		
Complete both advanced discr	ete matnen	4	MAT302	Discrete Mathematical Structures	
		4	MAT315	Linear Algebra	
Complete one (1) theoretical s	tructures co		NAAT260	Durantical Contains	
		4	MAT360	Dynamical Systems	
-		4	MAT370	Real Analysis	
Complete one (1) applied proje	ects course				
		4	DST475	Machine Learning	
		4	DST490	Data Visualization for Social Justice (KC)	
		4	MAT455	Numerical Mathematics and Computation	
		4	MAT465	Modeling and Differential Equations in Biologic	al and Natural Sciences
Complete one (1) advanced ma	athematics	elective nui	mbered 350 o	or above	
		4	MAT380	Abstract Algebra	
Complete one (1) advanced ele	activa chos	an from:			
Complete one (1) advanced en	ective, crios	4	MAT325	History of Mathematics	
Complete one (1) additional su	ipporting co		565330	5 40 44 11 1 44 11 11	
		3	ESE330	5-12 Methods: Mathematics	
Pass MAT491 in your final sem	ester				
		0	MAT491	Mathematics Colloquium	
· · · · · · · · · · · · · · · · · · ·		_		= Engaging Minneapolis; AE = Augsburg Experience; KC =	
ivatural Science & Mathematics - N	o iau; NSIVI-L	– maturai SC	erice & Mathe	matics-with lab; SBS = Social & Behavioral Science; FA =	rille Arts; noivi = numanities
Ctudont's Cignoture					Data
Student's Signature					Date
Advisor's Printed Name				Signature	Date

Student Name: _____ ID Number: _____