



Winona State University
Four-Year Program Map

Created on 7/5/2023
Effective Fall 2023

Program: **Mathematics (BS MATH)**
Emphasis (optional): **Additional Minor or Major Option**

	Fall Semester			Spring Semester		
	Course	Requirement Met	SH	Course	Requirement Met	SH
Year 1	ENG 111 College Reading & Writing or CMST 191 or 192	GE Goal 1	3-4	ENG 111 College Reading & Writing or CMST 191 or 192	GE Goal 1	3-4
	MATH 212 Calculus I	Major/GE Goal 4	4	MATH 213 Calculus II	Major	4
	STAT 210 Statistics	Major/GE Goal 4	3	MATH 247 Discrete Math OR CS 234 Algorithms & Problem-Solving I	Major	3-4
	General Education Course	GE Goal 3	3	General Education Course (Lab)	GE Goal 3/5/6/7/8/9/10	4
	OR 100 Orientation	Recommended	1			
NOTE:			NOTE:			
First-Year Fall Semester Credit Hour Total			14-15	First-Year Spring Semester Credit Hour Total		
				14-16		
Year 2	MATH 311 Linear Algebra	Major	4	MATH 313 Differential Equations	Major/CAI	4
	MATH 312 Multivariable Calculus	Major/CAI	4	MATH 327 Foundations of Mathematics	Major/WI	4
	Additional Major/Minor Course **	Major	3	General Education Course	GE Goal 5	3
	General Education Course	GE Goal 5	3	General Education Course	GE Goal 8	3
	Physical Development & Wellness	PDW	1	General Education Course	GE Goal 10	3
NOTE: **This document is only meant to be a guide. Please refer to documentation for the desired additional minor or major for the necessary requirements.			NOTE: Students must earn 40 S.H. credits of 300 & 400 Level Courses.			
Second-Year Fall Semester Credit Hour Total			15	Second-Year Spring Semester Credit Hour Total		
				17		
Year 3	MATH 347 Number Theory OR Additional Major/Minor Course**	Major	3	MATH 447 Abstract Algebra OR Major Elective*	Major	3-4
	MATH 452 Advanced Calculus I	Major/WI	4	Additional Major/Minor Course OR MATH 337 Probability	Major	3
	Additional Major/Minor Course **	Major	3	Additional Major/Minor Course **	Major	3
	General Education Course	GE Goal 6	3	Additional Major/Minor Course **	Major	3
	General Education Course	GE Goal 9	3	General Education Course	GE Goal 6	3
NOTE:			NOTE: *There are a variety of courses that can be taken, please refer to DARS to see a list of all courses offered.			
Third-Year Fall Semester Credit Hour Total			16	Third-Year Spring Semester Credit Hour Total		
				15-16		
Year 4	Major Elective* OR STAT 450 Intro to Mathematical Statistics I	Major	3-4	Major Elective*	Major	3
	Major Elective*	Major	3	Additional Major/Minor Course **	Major	3
	Additional Major/Minor Course **	Major	3	Physical Development & Wellness	PDW	1
	General Education Course	GE Goal 7	3	General Education Course	GE Goal 6	3
	General Education Course	GE Goal 5	3	Major Elective or General Elective Course	Major/Gen Elect	3
			Major Elective or General Elective Course	Major/Gen Elect	1-4	
NOTE:			NOTE:			
Fourth-Year Fall Semester Credit Hour Total			15-16	Fourth-Year Spring Semester Credit Hour Total		
				14		

Total Credit Hours (SH): 120