

Mathematics and Statistics Multi-Year Course Rotation for Fall 2024/Spring 2025 and Beyond

<i>Course Number</i>	<i>Course Name</i>	<i>Concentration Requirement</i>	<i>Odd Fall</i>	<i>Even Spring</i>	<i>Even Fall</i>	<i>Odd Spring</i>	<i>Summer</i>
MATH 1010/1010E	Mathematics for Society		X	X	X	X	X
MATH 1110	Algebraic Problem Solving		X	X	X	X	
MATH 1200	Intro to Actuarial Science			X		X	
MATH 1234	Honors Seminar in Mathematics		X		X		
MATH 1410	Structure of Mathematical Systems I		X	X	X	X	X
MATH 1420	Structure of Mathematical Systems II		X	X	X	X	X
MATH 1530/1530E	Elements of Statistics		X	X	X	X	X
MATH 1530H	Element sof Statistics Honors			X		X	
MATH 1550	Statistics and Probability for K-8 Teachers		X	X	X	X	
MATH 1710/1710E	Precalculus Algebra		X	X	X	X	X
MATH 1730	Precalculus		X	X	X	X	X
MATH 1810	Elements of Calculus I		X	X	X	X	
MATH 1910	Calculus I	All	X	X	X	X	X
MATH 1910H	Calculus I Honors		X		X		
MATH 1920	Calculus II	All	X	X	X	X	X
MATH 1920H	Calculus II Honors			X		X	
MATH 2110	Calculus III	All	X	X	X	X	
MATH 3000	Discrete Mathematics	Math Ed		X		X	X
MATH 3010	Introduction to Mathematical Reasoning	All	X	X	X	X	X
MATH 3120	Differential Equations I	Math-Pure and Applied		X		X	
MATH 3130	Differential Equations II	Math-Applied	X		X		
MATH 3450	Linear Algebra	All		X		X	X
MATH 3630	College Geometry	Math Ed		X		X	
MATH 4010*	History of Mathematics	Math Ed		X		X	
MATH 4020	Geometry for Elem. And M.S. Teachers		X		X		
MATH 4030	Problem Solving for Elem. and M.S. Teachers			X		X	
MATH 4100	Teaching Math in Grades K-3		X	X	X	X	
MATH 4110*	Number Theory	Math-Pure, Math Ed	X		X		
MATH 4120	Problems in Actuarial Science		X		X		
MATH 4130*	Financial Mathematics	Act Sci	X		X		
MATH 4140*	Financial Derivatives and Investment Markets		X		X		
MATH 4150	Teaching Math in Grades 4-6		X	X	X	X	
MATH 4160*	Complex Analysis		X				
MATH 4180*	Short Term Actuarial Mathematics		X				
MATH 4190*	Fundamentals of Actuarial Mathematics	Act Sci		X		X	

MATH 4200	Math Content and Pedagogy for M.S.	Math Ed		X		X	
MATH 4210*	Topology				X		
MATH/STAT 4240*	Probability	All	X		X		X
Course Number	Course Name	Concentration Requirement	Odd Fall	Even Spring	Even Fall	Odd Spring	Summer
MATH/STAT 4260*	Stochastic Processes		X	X	X	X	
MATH 4280*	Long Term Actuarial Mathematics				X		
MATH 4310*	Machine Learning	Data Sci	X		X		
MATH 4320	Advanced Machine Learning	Data Sci		X		X	
MATH 4321	Intro to Symbolic Computation	Data Sci	X	X	X	X	
MATH 4400	Teaching of Secondary School Mathematics	Math Ed	X		X		
MATH 4450*	Mathematical Models	All	X		X		
MATH 4460*	Applied Mathematics	Math-Applied	X		X		
MATH 4500*	Modern Algebra	Math-Pure, Math Ed		X			
MATH 4670*	Numerical Analysis	Math-Applied	X	X	X	X	
MATH 4710*	Real Analysis	Math-Pure				X	
MATH/STAT 4810	Senior Seminar	All	X	X	X	X	
MATH 490H	Ind. Study with High Impact Practices	Offered as needed or requested					
MATH 4900	Selected Topics						
MATH 4910	Topics in Mathematics						
MATH 4950	Special Problems						
STAT 3250	Statistical Methods	Math Ed, Stats, Act Sci	X	X	X	X	
STAT 4120*	Regression Analysis	Stats, Act Sci, Data Sci		X		X	X
STAT 4125*	The Generalized Linear Model			X		X	
STAT 4130*	Experimental Design	Stats	X		X		
STAT 4140*	Time Series Analysis	Act Sci, Data Sci	X		X		
STAT 4170*	Data Visualization and Exploration	Data Sci	X		X		
STAT 4200*	SAS Programming			X		X	X
STAT 4250*	Mathematical Statistics	Math-Applied, Stats, Act Sci		X			
STAT 4270*	Nonparametric Statistics		X				
STAT 4290*	Predictive Analytics	Data Sci		X		X	

* Course can be taken by graduate students at the 5000-level