

**Department of Mathematics and Physics**  
**Four-year Mathematics Graduate Courses Schedule (Fall 2024 – Summer 2028)**

Course # and Title	F 24	Sp 25	Sr 25	F 25	Sp 26	Sr 26	F 26	Sp 27	Sr 27	F 27	Sp 28	Sr 28
Required courses												
MATH 5305 Real Analysis I <sup>2</sup>	3				3					3		
MATH 5320 Complex Variables I <sup>1</sup>		3						3				
MATH 5330 Abstract Algebra I <sup>1</sup>	3						3					
MATH 5365 Topology <sup>2</sup>					3						3	
MATH 5370 Mathematical Modeling <sup>2</sup>	3						3					
MATH 5375 Probability <sup>2</sup>		3						3				
STAT 5390 Case Seminar in Applied Statistics <sup>2</sup>				3							3	
Elective courses												
MATH 5303 Number Theory I							3					
MATH 5306 Linear Algebra				3								
MATH 5312 Functional Analysis I								3				
MATH 5315 Combinatorics										3		
MATH 5316 Graph Theory										3		
MATH 5340 Differential Geometry					3							
MATH 5350 Ordinary Differential Equations I	3											
MATH 5360 Partial Differential Equations											3	
MATH 5367 Numerical Methods for PDE I					3							
STAT 5300 - Categorical Data Analysis <sup>3</sup>							3					
STAT 5305 - Applied Data Analysis <sup>3</sup>											3	
STAT 5306 - Generalized Linear Models w Appl <sup>3</sup>								3				
STAT 5310 - Statistical Models for Clinical Trials <sup>3</sup>		3										
STAT 5322 - Theory of Sampling and Surveys <sup>3</sup>	3											
STAT 5327 - Computational Models in Statistics <sup>3</sup>		3										
STAT 5328 - Regression & Applied Series Models <sup>3</sup>										3		
STAT 5329 - Analysis of Variance in Exper D M <sup>3</sup>				3								
STAT 5340 - Quality Control and Improvement <sup>3</sup>					3							
STAT 5341 - Applied Multivariate Analysis <sup>3</sup>				3								
STAT 5387 - Statistical Models for Spatial Data <sup>3</sup>							3					
Courses based on student request												
MATH 5191 Mathematics Seminar	1	1	1	1	1	1	1	1	1	1	1	1
MATH 5252 Internship in Mathematics	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3
MATH 5290 Research Methods in Mathematics	2	2	2	2	2	2	2	2	2	2	2	2
MATH 5398 Thesis I	3	3	3	3	3	3	3	3	3	3	3	3
MATH 5399 Thesis II	3	3	3	3	3	3	3	3	3	3	3	3