

Department of Mathematics and Physics  
Four-year Mathematics Graduate Courses Schedule (Fall 2019 – Summer 2023)

Course # and Title	F 19	Sp 20	Sr 20	F 20	Sp 21	Sr 21	F 21	Sp 22	Sr 22	F 22	Sp 23	Sr 23
Required courses												
MATH 5305 Real Analysis I <sup>1,5</sup>		3					3					
MATH 5320 Complex Variables I <sup>1</sup>		3			3			3			3	
MATH 5330 Abstract Algebra I <sup>1</sup>	3			3			3			3		
MATH 5365 Topology <sup>1,5</sup>	3				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									3		
STAT 5305 - Applied Data Analysis <sup>3</sup>				3								
STAT 5306 - Generalized Linear Models w Appl <sup>3</sup>		3									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									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