Mathematics & Statistics Graduate Course Schedule
For Fall 2024, Spring 2025, Summer 2025…

F = Face-to-Face   O = Online   H= Hybrid

Course Name	Course Number	Odd Falls	Even Springs	Even Summers	Even Falls	Odd Springs	Odd Summers
Structure of Mathematical System	MATH 5001	O			O		
History of Mathematics	MATH 5010		F			F	
Methods, Materials, Strategies	MATH 5070	O					
Mathematics in a Technological World	MATH 5080			H			
Scientific Writing in Mathematics	MATH 5090				O		
Mathematical Concepts Development	MATH 5100		H			H	
Number Theory	MATH 5110	F			F		
Contemp Approach Prob Solv and Proof	MATH 5120		O				
Financial Mathematics	MATH 5130		FO			FO	
Financial Derivatives	MATH 5140	FO			FO		
Complex Analysis	MATH 5160	F					
Finite Math	MATH 5170			O			O
Short Term Actuarial Math	MATH 5180	F					
Fund of Actuarial Math	MATH 5190		F			F	
Topology	MATH 5210				F		

Course	Code	1	2	3	4	5	6
Risk and Interest Rate Models	MATH 5230		FO			FO	
Probability	MATH 5240	F		O	F		O
Advanced Stochastic Processes	MATH 5260		FO			FO	
Long Term Actuarial Math	MATH 5280				F		
Special Problems in Mathematics Education	MATH 5300	As Needed					
Advanced Machine Learning I	MATH 5310	FO		FO	FO		FO
Advanced Machine Learning II	MATH 5320		FO			FO	
Data Analysis and Programming	MATH 5321	FO	FO		FO	FO	
Special Problems	MATH 5330	As Needed					
Calculus from an Advanced Perspective	MATH 5350			H			
Mathematical Models	MATH 5450	F			F		
Applied Mathematics	MATH 5460	F			F		
Modern Algebra	MATH 5500		F				
Algebra from an Advanced Perspective	MATH 5520						H
Geometry from an Advanced Perspective	MATH 5640						H
Numerical Analysis	MATH 5670	FO			FO		
Real Analysis	MATH 5710					F	

Course	Code						
Differential Equations and Stochastic Analysis	MATH 5800		FO			FO	
Computational Methods in Finance	MATH 5820	FO			FO		
Internship	MATH 5900	As Needed					
Graduate Research Project	MATH 5910	O	O		O	O	
Topics in Mathematics	MATH 5920	As Needed					
Research in Mathematics	MATH 5940					O	
Probabilistic and Statistical Reasoning	STAT 5050	FO	FO		FO	FO	
Regression Analysis	STAT 5120		FO	O		FO	O
The Generalized Linear Model	STAT 5125		FO			FO	
Experimental Design	STAT 5130	FO			FO		
Time Series Analysis	STAT 5140	FO			FO		
SAS Programming	STAT 5200		O	O		O	O
Probability	STAT 5240	F		O	F		O
Mathematical Statistics	STAT 5250		F				
Stochastic Processes	STAT 5260	FO			FO		
Nonparametric Statistics	STAT 5270	FO					
Predictive Analytics	STAT 5290		OH			OH	
Internship	STAT 5900	As Needed					
Capstone Project	STAT 5910	As Needed					

Course	Code						
Database Management Concepts	CSCI 5010	FO	O		FO	O	
Data Science in Python	CSCI 5015		F	O		F	O
Data Mining Applications	CSCI 5080	O		O	O		O
Data Mining Project	CSCI 5095		O			O	
Leadership for the Scientist Manager	LDSP 5100	O		O	O		O
Leadership and Communication	COMM 5110	O	O	O	O	O	O