List of Courses. For more information, see our course catalog in **STAT** and **APPM**.	
*STAT 5520: Introduction to Mathematical Statistics**	Probability, Statistics, and Data Science Theory
STAT 5530: Mathematical Statistics (for advanced stats and data science students)	
STAT 5540: Introduction to Time Series	
STAT 5100: Markov Processes, Queues and Monte Carlo Simulations	
STAT 5230: Stochastic Analysis for Finance	
STAT 5650: Randomized Algorithms	
APPM 5490: Theory of Machine Learning	
APPM 5515: High Dimensional Probability for Data Science	
APPM 6560: Measure-Theoretic Probability	
*STAT 5000: Statistical Methods and Applications I**	Statistical and Data Science Applications
*STAT 5010: Statistical Methods and Applications II**	
*STAT 5610: Statistical Learning**	
STAT 5430: Spatial Statistics	
STAT 5630: Computational Bayesian Statistics	
STAT 5400: Advanced Statistical Modeling	
APPM 5510: Data Assimilation in High Dimensional Dynamical Systems	
STAT 5720: Deep Learning	
STAT 5700: Philosophical and Ethical Issues in Statistics	Professional Development and Collaboration Skills
STAT 5680: Statistical Collaboration	
STAT 5690: Advanced Statistical Collaboration (2 credits)	
APPM 6930: Professional Master's Culminating Experience	
required for the track in statistics and data science	