

<b>List of Courses. For more information, see our course catalog in <a href="#">STAT</a> and <a href="#">APPM</a>.</b>	
STAT 5520: <i>Introduction to Mathematical Statistics*</i>	Probability, Statistics, and Data Science Theory
OR 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	Statistical and Data Science Applications
STAT 5000: Statistical Methods and Applications I (encouraged but optional based on background; another APPM/STAT elective should be taken as the alternative)	
STAT 5010: <i>Statistical Methods and Applications II*</i>	
OR STAT 5310: <i>Statistical Modeling for Data Science*</i>	
STAT 5610: <i>Statistical Learning*</i>	
STAT 5430: Spatial Statistics	
STAT 5350: Applied Deep Learning I	
STAT 5360: Applied Deep learning II	
STAT 5630: Computational Bayesian Statistics	Professional Development and Collaboration Skills
STAT 5400: Advanced Statistical Modeling	
APPM 5510: Data Assimilation in High Dimensional Dynamical Systems	
STAT 5700: Philosophical and Ethical Issues in Statistics	
STAT 5680: Statistical Collaboration	Professional Development and Collaboration Skills
STAT 5690: Advanced Statistical Collaboration (2 credits)	
APPM 6930: Professional Master's Culminating Experience	
<i>*required for the track in statistics and data science</i>	