

# Foundations of Data Science (MS): Statistics Concentration

ST 540	Applied Bayesian Analysis
<b>Total Hours</b>	<b>30</b>

## Degree Requirements

Code	Title	Hours	Counts towards
<b>Required Courses</b>			<b>21</b>
Statistics Core			
ST 503	Fundamentals of Linear Models and Regression		
ST 517	Applied Statistical Methods I		
Mathematics Core (choose two of the following)			
MA 523	Linear Transformations and Matrix Theory		
MA 540	Uncertainty Quantification for Physical and Biological Models		
MA 542	Convex Optimization Methods in Data Science		
Computer Science core			
CSC 505	Design and Analysis Of Algorithms		
CSC 540	Database Management Concepts and Systems		
Machine Learning core (choose one of the following)			
ST 563	Introduction to Statistical Learning		
CSC 522	Automated Learning and Data Analysis		
<b>Concentration Electives</b>			<b>9</b>
A minimum of 9 hours of elective courses must be taken from the following courses:			
ST 534	Applied Time Series		
ST 537	Applied Multivariate and Longitudinal Data Analysis		