

Foundations of Data Science (MS): Computer Science Concentration

CSC 742	Advanced Topics in Database Management Systems
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Total Hours	30
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Degree Requirements

Code	Title	Hours	Counts towards
Required Courses		21	
Statistics Core			
ST 503	Fundamentals of Linear Models and Regression		
ST 517	Applied Statistical Methods I		
Mathematics Core			
MA 523	Linear Transformations and Matrix Theory		
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		
Concentration Electives		9	
A minimum of 9 hours of elective courses must be taken from the following courses:			
CSC 520	Artificial Intelligence I		
CSC 541	Advanced Data Structures		
CSC 720	Artificial Intelligence II		
CSC 722	Advanced Topics in Machine Learning		