

BU Mathematics BA-Data Science Degree Checklist

Effective Fall 2018

Required and Elective Courses (56 credits)			
Required Core Data Science Courses (15 credits)	Credits	Grade	Semester/Year
DATASCI 110 Introduction to Data Science	3		
DATASCI 210 Data Visualization	3		
DATASCI 310 Databases for Big Data	3		
DATASCI 410 Machine Learning	3		
DATASCI 420 Advanced Data Science	3		
Required Core Math Courses (20 credits)	Credits	Grade	Semester/Year
MATH 125 Calculus 1	4		
MATH 126 Calculus 2	4		
MATH 185 Discrete Mathematics	3		
MATH 240 Statistical Methods	3		
MATH 241 Probability and Statistics	3		
MATH 340 Statistical Software	3		
Required Core CS courses (12 credits)	Credits	Grade	Semester/Year
COMPSCI 115 Python Programming (3)	3		
COMPSCI 215 Advanced Python Programming (3)	3		
COMPSCI 348 Data Mining	3		
COMPSCI 357 Data Base Design	3		
Elective Courses (Select 9 credits from the list below)			
COMPSCI 121 Object Oriented Programming in Java	4		
COMPSCI 122 Graphic Interface in Java	4		
COMPSCI 221 Advanced Java	3		
COMPSCI 457 Advanced Data Base Design	3		
DIGFOR 219 Introduction to Linux for Digital Forensics	3		
MATH 225 Calculus 3	3		
MATH 314 Linear Algebra	3		
MATH 320 Programming in Mathematics	3		
MATH 342 Design and Analysis of Experiments	3		
MATH 343 Applied Regression Analysis	3		
MATH 410 Math Modeling	3		

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	COURSE GEPs SEM/YR GRADE	COURSE GEPs SEM/YR GRADE	COURSE GEPs SEM/YR GRADE	COURSE GEPs SEM/YR GRADE
Learning Outcome 1 Communication 7 GEPs needed (3 disciplines)	ENGLISH 101 3			
Learning Outcome 2 Information Literacy 2 GEPs needed				
Learning Outcome 3 Analytical/Quantitative 5 GEPs needed (2 disciplines)	Math 125 2	Math 126 3		
Learning Outcome 4 Culture/History 5 GEPs needed (2 disciplines)				
Learning Outcome 5 Natural Sciences 5 GEPs needed (2 disciplines)	Math 125 1			
Learning Outcome 6 Social Sciences 5 GEPs needed (2 disciplines)				
Learning Outcome 7 Arts and Humanities 5 GEPs needed (2 disciplines)				
Learning Outcome 8 Second Language 2 GEPs needed				
Learning Outcome 9 Health 2 GEPs needed				
Learning Outcome 10 Citizenship 2 GEPs needed				