

BU Mathematics BS Degree Checklist

Required Math and CS Courses (54-56 credits) Effective Fall 2018			
Required Core Math Courses (30 credits)	Credits	Grade	Semester/Year
MATH 125 Calculus 1	4		
MATH 126 Calculus 2	4		
MATH 225 Calculus 3	4		
MATH 185 Discrete Mathematics	3		
MATH 241 Probability and Statistics	3		
MATH 314 Linear Algebra	3		
MATH 405 Abstract Algebra	3		
MATH 410 Math Modeling	3		
MATH 421 Real Analysis	3		
Elective Math (18 credits)			
MATH 208 and above, not including MATH 300-307 (6 credits)			
	3		
	3		
MATH 308 and above (12 credits)			
	3		
	3		
	3		
	3		
Required CS courses (6-8 credits)	Credits	Grade	Semester/Year
COMPSCI 121 Object Oriented Programming in Java (4) or COMPSCI 115 Python Programming (3)	4/3		
COMPSCI 122 Graphic Interface in Java (4) or COMPSCI 215 Advanced Python Programming (3) or MATH 320 Computer Programming for Math (3) or Any course COMPSCI 300 or higher (3)	4/3		
Required Science Sequence (8 credits)	Credits	Grade	Semester/Year
PHYSICS 211 and PHYSICS 212 General Physics 1 and 2 or CHEM 115 and CHEM 116 Chem. for the Sciences 1 and 2 or COMPSCI 221 and COMPSCI 255 Advanced Java and Data Structures Using C++	8		
Other Required Course (3 Credits)	Credits	Grade	Semester/Year
ENGLISH 101 Foundation of Writing	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	PHYSICS 1 1	
Learning Outcome 4 Culture/History 5 GEPs needed (2 disciplines)				
Learning Outcome 5 Natural Sciences 5 GEPs needed (2 disciplines)	MATH 125 1	PHYSICS 1 3		
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				