Mathematics B.S.

Core Curriculum Courses

Bachelor of Science in Mathematics

Additional Electives, 32 credit ho	Real Analysis Complex Analysis Topology Number Theory credit hours: 6 hours of Math courses at 300/400 level except MATH 301, 361, 362, 371, 372, 380	3 3 3 6 32
or MATH 438 or MATH 440 MATH 437 Math Concentration Electives, 6 of In addition to the required courses, Additional Electives, 32 credit ho	Real Analysis Complex Analysis Topology Number Theory credit hours: 6 hours of Math courses at 300/400 level except MATH 301, 361, 362, 371, 372, 380	3
or MATH 438 or MATH 440 MATH 437 Math Concentration Electives, 6 o	Real Analysis Complex Analysis Topology Number Theory credit hours:	3
or MATH 438 or MATH 440 MATH 437	Real Analysis Complex Analysis Topology Number Theory	3
or MATH 438 or MATH 440	Real Analysis Complex Analysis Topology	3
or MATH 438	Real Analysis Complex Analysis	
	Real Analysis	
MATH 436		
	· ····································	3
MATH 334	Abstract Algebra	
Math Concentration Courses, 9 c	credit hours:	
or PHYS 2426	University Physics II	
or PHYS 2425	University Physics I	
COSC 1437	Programming Fundamentals II	4
COSC 1436	Introduction to Computer Science and Programming	4
MATH 403	Mathematical Statistics II	3
MATH 402	Mathematical Statistics I	3
MATH 2415	Calculus III	4
MATH 2414	Calculus II	4
MATH 2413	Calculus I	
MATH 2320	Differential Equations	3
MATH 2318	Linear Algebra	3
MATH 2305	Discrete Mathematics	3
Required Courses, 31 credit hour	rs:	
See the Core Curriculum Courses		42

Bachelor of Science in Mathematics - Emphasis in Data Science

See the Core Curriculum Requirements (https://coursecatalog.tamuc.edu/undergrad/core-curriculum-requirements/) 42 Required courses in the major, 31 credit hours: MATH 2305 3 **Discrete Mathematics** MATH 2318 Linear Algebra 3 MATH 2320 **Differential Equations** 3 MATH 2413 Calculus I MATH 2414 Calculus II 4 MATH 2415 Calculus III 4 **MATH 402** Mathematical Statistics I 3 **MATH 403** Mathematical Statistics II 3 Introduction to Computer Science and Programming COSC 1436 4 Programming Fundamentals II COSC 1437 4 or PHYS 2425 University Physics I Data Science Concentration Courses, 24 credit hours: COSC 2336 Data Structures and Algorithms 3 3 CSCI 333 Applied Data Analytics with Python **CSCI 340** Database 3 3 **CSCI 334** Introduction to Statistical Programming Methods with R

MATH 303	Introduction to Data Science	3
MATH 341	Linear Regression Models	3
MATH 342	Mathematics for Machine Learning	3
MATH 486	Image Processing with Applications	3
Data Science Concen	tration Electives, 6 credit hours:	
6 hours of math or appr	6	
Additional Electives,	17 credit hours:	
Meet a math faculty me	17	
Total Hours		120
* This courses will s	atisfy the Core Curriculum Requirements	
First Year		
Fall	Hours	

0

Total Hours: 0

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