

Mathematics B.S.

Core Curriculum Courses

See the Core Curriculum Requirements (<http://coursecatalog.tamuc.edu/undergrad/core-curriculum-requirements/>) 42

Required courses in the major

MATH 2413	Calculus I *	
MATH 2414	Calculus II *	
MATH 2415	Calculus III	4
MATH 332	Methods of Mathematical Proofs	3
MATH 333	Advanced Linear Algebra	3
MATH 334	Abstract Algebra	3
MATH 402	Mathematical Probability	3
MATH 403	Mathematical Statistics	3
MATH 436	Real Analysis	3
or MATH 438	Complex Analysis	
or MATH 440	Topology	

Plus 12 hours from 12

MATH 316	Mathematical Methods in Physics & Engineering	
MATH 317	Numerical Analysis	
MATH 321	College Geometry	
MATH 325	Partial Differential Equations	
MATH 326	Applied Mathematics	
MATH 426	GLB/History of Mathematics	
MATH 436	Real Analysis	
MATH 437	Number Theory	
MATH 438	Complex Analysis	
MATH 440	Topology	

Required support courses

MATH 2305	Discrete Mathematics	3
MATH 2318	Linear Algebra	3
MATH 2320	Differential Equations	3
COSC 1436	Introduction to Computer Science and Programming	4
COSC 1437	Programming Fundamentals II	4
PHYS 2425	University Physics I	
or PHYS 2426	University Physics II	

Additional Electives Required 27

Electives (including a minimum of 6 advanced hours) required to meet minimum program hours.

A minor or second major is strongly suggested

A grade of C or better is required for all math courses listed under "required courses in the major," "Plus 12 hours", and "required support courses." Additionally, the major GPA consists of all these courses.

Total Hours 120

* This courses will satisfy the Core Curriculum Requirements