

# Fast Track Bachelors + Masters Mathematics

The Fast-Track Bachelors + Masters degree program allows undergraduate students in the Mathematics program to begin coursework towards the non-thesis option of the Master of Science in Mathematics program during their senior year at East Texas A&M University. Students can earn a B.S. and M.S. degree in five years upon completion of degree requirements for both degrees. For this Fast-Track Bachelors + Masters program, 6 credits of graduate coursework can be applied to the undergraduate degree. To be admitted to the Fast-Track Bachelors + Masters program in Mathematics, the candidate must be a Mathematics major with an overall Undergraduate GPA of 3.25. Students must apply for the Fast-Track Bachelors + Masters program during the semester they will earn 90 semester hours or more towards their bachelors program. Once admitted, the Fast-Track Bachelors + Masters candidate must maintain a 3.25 Undergraduate GPA.

## Core Curriculum Courses

See the Core Curriculum Courses 42

## Required Courses

MATH 2305	Discrete Mathematics	3
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
COSC 1436	Introduction to Computer Science and Programming	4
COSC 1437	Programming Fundamentals II	4

or PHYS 2425 or PHYS 2426

## Required Concentration Courses

MATH 334	Abstract Algebra	3
MATH 437	Number Theory	3
MATH 511A	Real Analysis I	3
MATH 538A	Functions of Complex Variables I	3

## Additional Electives Required 35

Additional six graduate hours can be taken in the senior year for graduate credit only, which won't be counted to the BS degree, ineligible for final aid, and approval is needed. A minor or second major is strongly suggested. Meet a math faculty member to choose a minor or a second major and for taking graduate classes.

**Total Hours 120**

\* This course should be used to satisfy the Core Curriculum Requirements.

## Master of Science in Mathematics Fast-Track (BS - MS) Option II Non-Thesis

The BS-MS Fast-Track degree program allows undergraduate students in the Mathematics program to begin coursework towards the non-thesis option of the Master of Science in Mathematics program during their senior year at East Texas A&M University. Students can earn a B.S. and M.S. degree in five years upon completion of degree requirements for both degrees. For this Fast-Track program, 6 credits of graduate coursework can be applied to both the BS and MS degrees. Once admitted, the BS/MS candidate must maintain a 3.25 Undergraduate GPA. In the final semester of the student's undergraduate program, a new online Apply Texas Application for the master's Fast-Track program must be submitted to gain admission and continue taking classes to complete the master's program.

## Research (3 semester hours)

MATH 595	Research Literature & Techniques	3
Required Courses (15 Semester Hours)		
MATH 501	Mathematical Statistics I	3
MATH 502	Mathematical Statistics II	3
MATH 511A	Real Analysis I *	3
MATH 531	Theory of Matrices	3
MATH 537	Theory of Numbers	3

Required Concentration Courses (6 semester hours)		
MATH 538A	Functions of Complex Variables I *	3
MATH 543	Abstract Algebra I	3
Electives (12 semester hours)		
Any MATH or MTE courses, or courses approved by the Math Department		
Total Hours		36

\* Courses shared with the BS program

First Year	
Fall	Hours
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Total Hours: 0	