Bachelor of Science Degree in Mathematics to Master of Science Degree in Mathematics Fast Track

About This Program

The BS to MS Fast Track in Mathematics allows students to complete both a Bachelor's degree and a master's degree in mathematics within five years. Students fulfill the BS concentration in pure mathematics where three of the courses are at the graduate level. Students may then transition directly into the master's program with a concentration in general mathematics (thesis option) to complete both degrees in five years.

ASSOCIATED PROGRAMS

For detailed information about the programs associated with this Fast Track, refer to their individual degree pages.

Mathematics BS (https://catalog.uta.edu/science/math/undergraduate/maths-bs/)

Mathematics MS (General Math)

Admissions Criteria

For admission as an undergraduate, students should:

- Be within 30 SCH of graduation.
- Have completed 30 SCH at UTA.
- Have earned a GPA of 3.3 or better overall and 3.3 or better in their MATH courses.
- Have completed the following three courses, each with a minimum grade of B:
  - MATH 3300 INTRODUCTION TO PROOFS
  - MATH 3321 ABSTRACT ALGEBRA I
  - MATH 3335 ANALYSIS I

For automatic admission to the graduate program, students should also have completed 9 SCH of required graduate courses from the list below, each with a minimum grade of B. These courses will count for both the undergraduate and the graduate degree.

- MATH 5307 MATHEMATICAL ANALYSIS I
- MATH 5333 LINEAR ALGEBRA AND MATRICES
- MATH 5317 REAL ANALYSIS
- MATH 5322 COMPLEX VARIABLES I
- MATH 5331 ABSTRACT ALGEBRA I
- MATH 5338 NUMERICAL ANALYSIS I

Curriculum

BS Foundations		
Complete General Core and Mathematics Foundations per catalog.		54
Mathematics BS Pure Math Specialization		
MATH 2326	CALCULUS III	3
MATH 3300	INTRODUCTION TO PROOFS (satisfies Oral Communication Competency) [1]	3
MATH 3316	STATISTICAL INFERENCE	3
MATH 3318	DIFFERENTIAL EQUATIONS	3
MATH 3321	ABSTRACT ALGEBRA I [1]	3
MATH 3330	INTRODUCTION TO LINEAR ALGEBRA AND VECTOR SPACES	3
MATH 3335	ANALYSIS I [1]	3
MATH 3345	NUMERICAL ANALYSIS AND COMPUTER APPLICATIONS	3
MATH 4321	ABSTRACT ALGEBRA II	3
MATH 4322	INTRODUCTION TO COMPLEX VARIABLES	3
MATH 4335	ANALYSIS II	3

Additional hours of advanced mathematics 33XX or above except for capstone mathematics courses specifically for prorospective middle grades or secondary grades mathematics teachers.		24
Select 9 hours from the following, which willl count both for the undergrduate and the graduate degree:		9
MATH 5307	MATHEMATICAL ANALYSIS I	
MATH 5333	LINEAR ALGEBRA AND MATRICES	
MATH 5317	REAL ANALYSIS	
MATH 5322	COMPLEX VARIABLES I	
MATH 5327	FUNCTIONAL ANALYSIS I	
MATH 5331	ABSTRACT ALGEBRA I	
MATH 5338	NUMERICAL ANALYSIS I	
Mathematics MS (General Math)		
Complete remaining requirments for the general mathematics concentration, thesis option.		21
Total Hours		**141**

1 This course must be completed with a grade of B or better for admissions to the fast track. See admissions requirements.

SUGGESTED COURSE SEQUENCE

First Year

First Semester	Hours	Second Semester	Hours
MATH 1426	4	MATH 2425	4
ENGL 1301	3	ENGL 1302	3
HIST 1301	3	CSE 1310	3
UNIV 1131	1	Creative Arts Elective	3
Life & Physical Science	3-4	Life & Physical Science	3-4
	14-15		**16-17**

Second Year

First Semester	Hours	Second Semester	Hours
MATH 2326	3	MATH 3318	3
MATH 3330	3	Life & Physical Science	3-4
Social & Behavioral Science	3	MATH 3300	3
Language & Philosophy	3	MATH 3316	3
Life & Physical Science	3-4	Advanced Math Elective	3
	15-16		**15-16**

Third Year

First Semester	Hours	Second Semester	Hours
MATH 3345	3	HIST 1302	3
Advanced Math Elective	3	MATH 4335	3
MATH 3335	3	MATH 4321	3
MATH 3321	3	Advanced Math Electives	6
HIST 1301	3		
	15		**15**

Fourth Year

First Semester	Hours	Second Semester	Hours
MATH 5333	3	POLS 2312	3
MATH 5307	3	MATH 5317	3
POLS 2311	3	Advanced Math Electives	9
MATH 3345	3		
Advanced Math Elective	3		
	15		**15**

Fifth Year

First Semester	Hours	Second Semester	Hours
MATH 5338	3	MATH 5698	6
MATH 5331	3	MATH 5327	3
MATH 5322	3		
Graduate math elective	3		
	12		**9**

Total Hours: 141-145

Advising Resources

First-time-in-college students should plan to speak to the math advisor when starting their second year. Transfer students should contact the math advisor after acceptance at UTA to create a degree plan and enroll in classes.

Location:

PKH 489

Email:

math.advising@uta.edu

Phone:

817-272-9688

Web:

Contact Information and Scheduling (https://www.uta.edu/academics/schools-colleges/science/departments/mathematics/advising/)