

# Bachelor of Science Degree in Mathematics (Second Major)

## About This Program

A student who satisfies the requirements for any other baccalaureate degree qualifies for having mathematics named as a second major upon completion of this program.

## Competencies

1. The student will gain additional knowledge and skills in mathematics beyond the requirements for a minor.
2. The student will gain foundational knowledge in abstract algebra, analysis, statistics, differential equations, and linear algebra.

## Curriculum

### Mathematics Specialization

MATH 3300	INTRODUCTION TO PROOFS	3
MATH 3316	STATISTICAL INFERENCE	3
MATH 3318	DIFFERENTIAL EQUATIONS	3
MATH 3321	ABSTRACT ALGEBRA I	3
MATH 3330	INTRODUCTION TO LINEAR ALGEBRA AND VECTOR SPACES	3
MATH 3335	ANALYSIS I	3
Select one of the following:		3
MATH 4321	ABSTRACT ALGEBRA II	
MATH 4335	ANALYSIS II	
MATH 4334	ADVANCED MULTIVARIABLE CALCULUS	

### Additional Advanced Hours

Select one of the following pairs of courses:		6
MATH 3313 & MATH 4311	INTRODUCTION TO PROBABILITY and STOCHASTIC MODELS AND SIMULATION	
MATH 3313 & MATH 4312	INTRODUCTION TO PROBABILITY and ACTUARIAL RISK ANALYSIS	
MATH 3313 & MATH 4313	INTRODUCTION TO PROBABILITY and MATHEMATICAL STATISTICS	
MATH 3314 & MATH 4314	DISCRETE MATHEMATICS and ADVANCED DISCRETE MATHEMATICS	
MATH 3345 & MATH 4330	NUMERICAL ANALYSIS AND COMPUTER APPLICATIONS and ADVANCED LINEAR ALGEBRA	
MATH 4324 & MATH 4322	INTRODUCTION TO PARTIAL DIFFERENTIAL EQUATIONS and INTRODUCTION TO COMPLEX VARIABLES	

### Total Hours

27

## 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/>)