



Department of Urban Education

And

Department of Mathematics and Statistics

Master of Arts in Teaching (MAT) in Curriculum and Instruction with an area of expertise in teaching mathematics, including a Concentration in Graduate Mathematics

This 36 credit-hour Master of Arts in Teaching (MAT) with a Concentration in Graduate Mathematics provides certified secondary mathematics teachers with the course work to teach dual-credit (high school/college) mathematics. Additionally, this MAT degree provides college/university developmental mathematics instructors with the coursework required to teach college-/university-credit mathematics courses.

Graduate Mathematics Courses (18 credit hours)

Students will take six 3-hour graduate courses from the following list:

- MATH 5300 Survey of Undergraduate Mathematics
- MATH 5301 Advanced Numerical Methods
- MATH 5302 Mathematical Statistics
- MATH 5305 Complex Variables and Application
- MATH 5306 Modern Algebra
- MATH 5307 Analysis
- MATH 5310 Statistical Foundations for Data Analytics
- MATH 5314 Differential Geometry
- MATH 6322 Graph Theory

Required Courses for MAT in Curriculum and Instruction (18 credit-hours)

COURSE	DESCRIPTION	SEMESTER
MAT 5312	Managing the Secondary Environment for Student Success	Spring 1
MAT 5330	Mathematics for Secondary Algebraic Reasoning	Spring 1 or 2
MAT 5331	Mathematics Methods for Geometric Reasoning	Spring 1 or 2
ETC 5301	Technology Application for Curriculum Development	Fall or Summer
MAT 6324	Innovative Teaching Applications Using Technology	Spring 2
MAT 6390	Directed Study in Urban Education (taken in the last semester)	any

Please note course prerequisites and course offerings. Also, some courses are offered only once a year. The above recommended course sequence is based on the course rotation (plans to offer courses).

Semester 1-taken in the first year

Semester 2-taken in the second year

The Graduate Mathematics Concentration requires completion of a minimum of 18 semester credit hours. For certificate completion, at least 15 hours must be completed at UH-Downtown

with a grade point average of 3.0. According to SACCS, eligibility for teaching college-level mathematics coursework includes both a Master's degree and 18 hours of graduate mathematics coursework. This concentration provides the 18 hours in graduate mathematics coursework which can be counted towards a Master of Arts in Teaching (MAT).

Scholarship Assistance

Students who are interested in completing the DCC as part of the MAT degree are encouraged to apply for the Gordon and Mary Cain Graduate Academic Merit Scholarship. Students must be enrolled in the MAT program at the time of application for the scholarship. This scholarship will pay for half the price of UHD MAT tuition/fees for two semesters. Students can earn this scholarship more than once during the course of their MAT program.

For More Information Contact	
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