



**A.S. in Mathematics**

to

**B.S. in Mathematics (4-8, Teacher Certification)**

This four-year plan provides a model for on-time completion of the B.S. in Mathematics (4-8, Teacher Certification) at UTRGV by starting at South Texas College.

Year	First Semester		Second Semester		
	STC Requirement	UTRGV Equivalent	STC Requirement	UTRGV Equivalent	
F R E S H M A N	Creative Arts Core	Creative Arts Core	HIST 1301 or HIST 2327 (American History Core)	HIST 1301 or HIST 2327 (American History Core)	
	Life and Physical Sciences Core	Life and Physical Sciences Core	Life and Physical Sciences Core	Life and Physical Sciences Core	
	ENGL 1301 (Communications Core)	ENGL 1301 (Communications Core)	ENGL 1302 (Communications Core)	ENGL 1302 (Communications Core)	
	MATH 2413 (Mathematics Core)	MATH 2413 (Mathematics Core, <b>Required at UTRGV</b> )	MATH 2414 (Major)	MATH 2414 (Major)	
	Third Semester				
		STC Requirement		UTRGV Equivalent	
		HIST 1302 or HIST 2328 (American History Core)		HIST 1302 or HIST 2328 (American History Core)	
	Language, Philosophy & Culture Core		Language, Philosophy & Culture Core		
Year	Fourth Semester		Fifth Semester		
	STC Requirement	UTRGV Equivalent	STC Requirement	UTRGV Equivalent	
S O P H O M O R E	MATH 2415 (Major)	MATH 2415 (Major)	MATH 2418 (Major)	MATH 2318 (Major)	
	GOVT 2305 (Political Science Core)	POLS 2305 (Political Science Core)	GOVT 2306 (Political Science Core)	POLS 2306 (Political Science Core)	
	MATH 2305 or MATH 1442 (Major)	MATH 2305 or MATH 1342 (not required at UTRGV)	MATH 2420 (Major)	MATH 2000 (fulfills Differential Equations requirement, but does not meet institutional advanced minimum hours)	
	Social & Behavioral Science Core	Social & Behavioral Science Core	Component Area Option Core	Integrative and Experiential Learning Core	

Year	Fall Semester	Spring Semester
<b>J U N I O R</b>	UTCH 1101	UTCH 1102
	MATH 1350 Fundamentals of Mathematics I	UTCH 3301 Knowing and Learning in Mathematics and Science
	MATH 3350 Introduction to Mathematical Proof	MATH 1351 Fundamentals of Mathematics II
	MATH 3352 Modern Geometry I	MATH 3363 Modern Algebra I
	READ 4305 Disciplinary Literacy in Content Area Classrooms	MATH 3372 Real Analysis I
		STAT 3337 Probability and Statistics
Year	Fall Semester	Spring Semester
<b>S E N I O R</b>	UTCH 3302 Classroom Interactions	UTCH 3303 Project-Based Instruction
	MATE 3321/BIO 3330/PHYS 3330 Functions and Modeling	MATE 4392/BIO 4392 Research Methods in Mid & Secondary School Math
	MATE 3301 Fundamentals of Middle School Mathematics	MATE 3303 Fundamentals of Measurement and Geometry II
	MATE 3304 Fundamentals of Algebraic Structures	MATE/PHIL 3317 Perspective in Mathematics and Science
	MATE 3302 Fundamentals of Measurement and Geometry I	MATH 4390 Mathematics Project
	Fall Semester	Spring Semester
	UTCH 4101 Apprentice Teaching Seminar	
	UTCH 4601 Apprentice Teaching	

This degree requires 123 hours and a minimum of 42 advanced (3000 and 4000) credit hours.