A.S. in Mathematics

to

B.S. in Mathematics (Applied Math)

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

Year	First Semester		Second Semester	
FRESHMAN	**STC Requirement**	**UTRGV Equivalent**	**STC Requirement**	**UTRGV Equivalent**
	Creative Arts Core	Creative Arts Core	HIST 1301 **or** HIST 2327 (American History Core)	HIST 1301 **or** HIST 2327 (American History Core)
	PHYS 2425 (Life & Physical Science Core)	PHYS 2425 (Life & Physical Science Core, **Required at UTRGV**)	PHYS 2426 (Life & Physical Science Core)	PHYS 2426 (Life & Physical Science Core, **Required at UTRGV)**
	ENGL 1301 (Communications Core)	ENGL 1301 (Communications Core)	ENGL 1302 (Communications Core)	ENGL 1302 (Communications Core)
	MATH 2413 (Mathematics Core)	MATH 2413 (Mathematics Core, **Required at UTRGV**)	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**	
SOPHOMORE	**STC Requirement**	**UTRGV Equivalent**	**STC Requirement**	**UTRGV Equivalent**
	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 (Fulfills free elective)	MATH 2420 (Major)	MATH 2000 (fulfills Differential Equations requirement, but does not meet institutional advanced minimum hours)
	ECON 2301 (Social & Behavioral Sciences Core**)**	ECON 2301 (Social & Behavioral Science Core, **Required at UTRGV**)	COSC 1436 (Component Area Option Core)	CSCI 1380 (Integrative and Experiential Learning Core, **Required at UTRGV**)

Year	Fall Semester	Spring Semester
JUNIOR	MATH 3343 Introduction to Mathematical Software	MATH 3352 Modern Geometry I
	MATH 3350 Introduction to Mathematical Proof	MATH 3345 Linear Optimization
	MATH 3363 Modern Algebra I	STAT 3337 Probability and Statistics
	STAT 3301 Applied Statistics	MATH 3372 Real Analysis I
	Free Elective	Free Elective
Year	**Fall Semester**	**Spring Semester**
SENIOR	MATH 4344 Boundary Value Problems	MATH 4390 Mathematics Project
	MATH 3361 Applied Discrete Mathematics	MATH 3347 Elementary Cryptology
	MATH 4342 Complex Variables	MATH 4346 Integral Transforms
	MATH 3349 Numerical Methods	Advanced Free Elective
	Free Elective	Free Elective

This degree requires 120 hours and a minimum of 42 advanced (3000 and 4000) credit hours.

Free electives hours will vary to achieve the institutional minimum of 120 hours for a degree.