Bachelor of Interdisciplinary Studies (BIS)
Middle School Mathematics
Focus: Middle School Mathematics 4th-8th Grade UTeach Certification

2019-2020

The University of Texas Rio Grande Valley

FIRST YEAR

FALL

!	H	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
	3	Choose 1	Communication (Core)	C	010	For all 010 courses: Satisfactory scores on ENGL portion of ACT test or TSI reading/writing exams or ENGL 0301.	See General Education Core for more details Options: ENGL 1301 **or** ENGL 1387 (H)
	3	MATH 1350	Fundamentals of Mathematics I	C		MATH 1314 or MATH 1414 with a grade of 'C' or better.	
	3	Choose 1	American History (Core)		060		See General Education Core for more details. Options: HIST 1301 **or** HIST 1387 (H) **or** HIST/MASC 2327
	1	UTCH 1101	Inquiry Approaches to Teaching	C		TB Vaccine	
	3	Choose 1	Integrative/Experiential Learning Option (Core)		090		Recommended: CSCI 1380
	4	MATH 2412	Precalculus	C	020	MATH 1314 or MATH 1414 with a grade of 'C' or better; or passing the College Algebra Exemption Test administered by the Department of Mathematics.	
		UNIV 1301	Learning Framework				Only if required, based on ACT/SAT and high school rank.
	17		**Semester Total Hours**				

SPRING

!	H	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
	3	Choose 1	Communication (Core)	C	010	For all 010 courses: Satisfactory scores on ENGL portion of ACT test or TSI reading/writing exams or ENGL 0301. For ENGL 1302/1388, a grade of "C" or better in ENGL 1301/1387.	See General Education Core for more details Options: ENGL 1302 **or** ENGL 1388 (H) **or** ENGL 1305
	3	MATH 1351	Fundamentals of Mathematics II	C		MATH 1350 with a grade of 'C' or better.	
	3	Choose 1	American History (Core)	C	060		See General Education Core for more details. Options: HIST 1302 **or** HIST 1388 (H) **or** HIST/MASC 2328
	1	UTCH 1102	Inquiry-Based Lesson Design	C		UTCH 1101 with a grade of "C"	
	4	MATH 2413	Calculus I	C		MATH 2412 with a grade of 'C' or better; or passing the Precalculus Exemption Test administered by the Department of Mathematics.	
	3	Choose 1	Social and Behavioral Sciences (Core)		080		Recommended: ECON 1301 or ECON 2301
	17		**Semester Total Hours**				

SECOND YEAR

FALL

!	H	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
	4	Choose 1	Life and Physical Sciences (Core)		030		Recommended: PHYS 2425
	3	MATE 3301	Fundamentals of Middle School Mathematics	C		MATH 1351 with a grade of 'C' or better.	
	3	Choose 1	Government/Political Science (Core)		070		See General Education Core for more details Options: POLS 2305 **or** POLS 2385 (H)
	3	Choose 1	Creative Arts (Core)		050		See General Education Core for course options.
	3	Choose 1	Language, Philosophy & Culture (Core)		040		See General Education Core for course options.
	16		**Semester Total Hours**				

SPRING

!	H	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
	4	Choose 1	Life and Physical Sciences (Core)		030		Recommended: PHYS 2426
	3	MATE 3302	Fundamentals of Measurement and Geometry I	C		MATH 1351 with a grade of 'C' or better.	
	3	Choose 1	Government/Political Science (Core)		070		See General Education Core for more details Options: POLS 2306 **or** POLS 2386 (H)
	3	UTCH 3301	Knowing and Learning in Mathematics and Science	C		UTCH 1101 and UTCH 1102 with a grade of "C" or better or concurrent enrollment with UTCH 1102 with consent of Uteach Advisor.	
	1	Choose 1	Integrative/Experiential Learning Option (Core)		090		See General Education Core for course options.
							Must apply to Teacher Education Program
	14		**Semester Total Hours**				

Symbols Key

Critical ('!'): sequence sensitive course.
Minimum Grade: A - Excellent; B - Good; C - Satisfactory; D - Below Average; CR - Credit; P - Passing; S - Satisfactory.

General Education Core (GEC) Sections: 010 - Communication; 020 - Mathematics; 030 - Life and Physical Sciences; 040 - Language, Philosophy & Culture; 050 - Creative Arts; 060 - American History; 070 - Government/Political Science; 080 - Social and Behavioral Sciences; 090 - Applied Communication and Literacies; 090 - Humanities; 090 - Leadership; 090 - Science Labs; 090 - Interdisciplinary ; 090 - Technologies; 090 - Language Diversity & Writing.

	H	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
THIRD YEAR / **FALL**	3	MATE 3303	Fundamentals of Measurement and Geometry II	C		MATE 3302 with a grade of 'C' or better.	
	3	MATE 3304	Fundamentals of Algebraic Structures	C		MATH 1351 with a grade of 'C' or better.	
	3	MATE 3321	Functions and Modeling	C		MATH 2413 (or MATH 2487) and UTCH 1102, each with a grade of 'C' or better.	
	4	X4XX X4XX	Life and Physical Sciences				Support Course
	3	UTCH 3302	Classroom Interactions			(a) A University grade point average of at least 2.75, (b) UTCH 3301 with a grade of "C" and admission to Teacher Education Program.	
	16	**Semester Total Hours**					
SPRING	3	MATE 3305	Fundamentals of Statistics and Probability	C		MATH 1351 or MATH 2413 (or MATH 2487) with a grade of 'C' or better.	
	3	MATE 3306	Middle School Mathematics in a Technological Environment	C		MATH 1351 with a grade of 'C' or better.	
	3	MATE 3307	Fundamentals of Problem Solving	C		MATH 1351 with a grade of 'C' or better.	
	3	MATE 3313	Fundamentals of Mathematics History	C		MATH 1351 and MATH 2412, each with a grade of 'C' or better.	
	3	MATE 4319	Research Methods in Middle School Mathematics	C		Consent of instructor.	
	15	**Semester Total Hours**					

	H	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
FOURTH YEAR / **FALL**	3	MATE 3317	Perspectives in Mathematics and Science	C		MATE 3321, BIOL 3330, or PHYS 3330 with a grade of "C" or better.	
	3	MATE 3311	Fundamentals of Discrete Mathematics	C		MATH 1351 with a grade of 'C' or better.	
	3	MATE 3312	Fundamentals of Number Theory	C		MATH 1351 with a grade of 'C' or better.	
	3	MATE 3314	Fundamentals of Mathematical Structures and Processes	C		MATH 1351 with a grade of 'C' or better.	
	3	UTCH 3303	Project-Based Instruction	C		(a) University grade point average of at least 2.75, (b) UTCH 3302 with a grade of "C".	
	15	**Semester Total Hours**					
SPRING	3	READ 4305	Disciplinary Literacy in Content Area Classrooms				
	1	UTCH 4101	Apprentice Teaching Seminar			(a) University grade point average of at least 2.75, (b) UTCH 3303 with a grade of "C" or better, © concurrent enrollment with UTCH 4601, (d) successful completion of PPR and content TExES examinations, acceptance of the Uteach Portfolio.	
	6	UTCH 4601	Apprentice Teaching			(a) University grade point average of at least 2.75, (b) UTCH 3303 with a grade of "C" or better, © concurrent enrollment with UTCH 4601, (d) successful completion of PPR and content TExES examinations, acceptance of the Uteach Portfolio.	
	10	**Semester Total Hours**					

Note

This program leads to a profession which requires an occupational license as defined under Texas Occupations Code 58.001. This requires that all applicants seeking to become licensed must undergo a criminal background check prior to licensure. Students in this program should check with the College of Education and P-16 Integration on the requirements for a criminal background check prior to student teaching.

Progression requirements: Admission to the College of Education and P-16 Integration is required for participation in Apprentice Teaching and Seminar (UTCH 4101, 4601). Students unable to be admitted to UTCH 4601 and UTCH 4101 will be required to substitute 7 advanced hours, as recommneded by advisor.

Graduation Requirements: A grade of "C" or better with a GPA of 2.75 or greater is required in all MATH and MATE.

120   **TOTAL HOURS**

(61)TOTAL ADVANCED HOURS

Approved: Thursday, April 4, 2019

Revised: Monday, May 6, 2019