

Middle School Mathematics

Mathematics 4th-8th

FIRST YEAR	FALL	I	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, a grade of "C" or better in ENGL 1301.	See General Education Core for more details Options: ENGL 1301
			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/MASC 2327
			1	UTCH 1101	Inquiry Approaches to Teaching	C		TB Vaccine	
			3	CSCI 1380	Computer Science I		090	Concurrent enrollment or credit for MATH 1314 or higher level mathematics course.	
			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 Academic and Career Success Living and Working by Design	1101 1001			As required, based on credit hours earned, TSI status, High school rank, major declaration
			17	Semester Total Hours					
SECOND YEAR	SPRING	I	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, a grade of "C" or better in ENGL 1301.	See General Education Core for more details Options: ENGL 1302 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/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	ECON 1301 or ECON 2301	Introduction to Economics or Macroeconomics	Principles of	080		
	17	Semester Total Hours							
SECOND YEAR	FALL	I	H	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
			4	PHYS 2425	Physics for Scientists and Engineers I		030	MATH 2413 and concurrent enrollment in MATH 2414.	
			3	MATE 3301	Fundamentals of Middle School Mathematics	C		MATH 1351 with a grade of 'C' or better.	
			3	POLS 2305	Government/Political Science (Core)		070		See General Education Core for more details
			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		4	PHYS 2426	Physics for Scientists and Engineers II		030	PHYS 2425.	
			3	MATE 3302	Fundamentals of Measurement and Geometry I	C		MATH 1351 with a grade of 'C' or better.	
			3	POLS 2306	Government/Political Science (Core)		070		See General Education Core for more details
			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							

CORE: The 2020-2021 list of core courses can be found in the 2020-2021 Undergraduate Catalog: www.utrgv.edu > See 'Core Curriculum'

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.

THIRD YEAR	FALL	H	Course #	Course Title	Min. Grade	GEC Prerequisite	Additional Notes
		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/BOIL/PHYS 3330	Functions and Modeling	C	MATH 2413 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 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 4392	Research Methods in Middle & Secondary School Math	C	One of the courses MATE 3305, STAT 3337, STAT 2334 , or STAT 3301		
15 Semester Total Hours							
FOURTH YEAR	FALL	H	Course #	Course Title	Min. Grade	GEC Prerequisite	Additional Notes
		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.

Major Admission Requirements: Admission to the Teacher Education Program at the Office of Educator Preparation and Accountability is required for completion of teacher certification requirements with the undergraduate degree. All admission requirements are in accordance to Texas Administrative Code rules §227.10 and the HEA Title II accountability requirements. All applicants must meet the current certification requirements in effect at the time of application, regardless of the catalog year of degree plan.

Major 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 recommended by advisor.

Major Graduation Requirements: Major requirements must be completed with a minimum grade of "C" and GPA of 2.75.

120 TOTAL HOURS

(42) Advanced institutional minimum credit hours

Approved: Thursday, February 4, 2021

Revised: Tuesday, November 17, 2020