

	I	H	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
FIRST YEAR	FALL	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 1301 or ENGL 1387 (H)
		4	MATH 2413	Calculus I	C	020	MATH 2412 with a grade of 'C' or better; or passing the Precalculus Exemption Test administered by the Department of Mathematics.	
		3	Choose 1	American History (Core)		060		See General Education Core for more details. Options: HIST 1301 or HIST 1387 or HIST/MASC 2327
		3	Choose 1	Social and Behavioral Sciences (Core)		080		See General Education Core for course options.
		3	Choose 1	Creative Arts (Core)		050		See General Education Core for course options.
		1	UTCH 1101	Inquiry Approaches to Teaching	C		TB Vaccine	UTeach requirement
			UNIV 1301	Learning Framework				Only if required, based on ACT/SAT and high school rank.
	<b>17 Semester Total Hours</b>							
	SPRING	3	Choose 1	Communication (Core)		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
		4	MATH 2414	Calculus II	C		MATH 2413 (or MATH 2487) with a grade of 'C' or better.	
		4	PHYS 2425	Physics for Scientists and Engineers I	C	030/090	MATH 2413 (or MATH 2487) and concurrent enrollment in MATH 2414 (or MATH 2488).	
		3	Choose 1	American History (Core)		060		See General Education Core for more details. Options: HIST 1302 or HIST 1388 or HIST/MASC 2328
		3	CSCI 1380	Computer Science I		090	Concurrent enrollment or credit for MATH 1314 or higher level mathematics course.	
		1	UTCH 1102	Inquiry-Based Lesson Design	C		UTCH 1101 with a grade of "C"	UTeach requirement
	<b>18 Semester Total Hours</b>							
SECOND YEAR	FALL	4	MATH 2415	Calculus III	C		MATH 2414 (or MATH 2488) with a grade of 'C' or better.	
		3	Choose 1	Language, Philosophy & Culture (Core)		040		See General Education Core for course options.
		4	PHYS 2426	Physics for Scientists and Engineers II		030/090	PHYS 2425.	
		3	Choose 1	Government/Political Science (Core)		070		See General Education Core for more details Options: POL S 2305 or POL S 2385 (H)
		3	PHYS 3330	Functions and Modeling			A grade of 'C' or better in the following: MATH 2413 (or MATH 2487) and UTCH 1102.	UTeach requirement
	<b>17 Semester Total Hours</b>							
	SPRING	3	MATH 3341	Differential Equations			MATH 2414 (or MATH 2488) and MATH 2318 with a grade of 'C' or better.	
		3	MATE 3317	Perspective in Mathematics and Science			MATE 3321, BIOL 3330, or PHYS 3330 with a grade of "C" or better.	UTeach requirement; Alternative: PHIL 3317
		4	PHYS 3402	Modern Physics			PHYS 2426	Physics core requirement.
		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.	UTeach requirement
		3	Choose 1	Government/Political Science (Core)		070		See General Education Core for more details Options: POLS 2306 or POLS 2386 (H)
		1	Choose 1	Integrative/Experiential Learning Option (Core)		090		See General Education Core for course options.
	<b>17 Semester Total Hours</b>							
	<b>Must apply to Teacher Education Program.</b>							

CORE: The 2018-2019 list of core courses can be found at: [www.utrgv.edu](http://www.utrgv.edu) > Academics > Undergraduate > General Education Core  
[www.utrgv.edu/core](http://www.utrgv.edu/core)

Symbols Key

**Critical ('I'):** 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.

**Language Proficiency Requirement:** Student is required to demonstrate language proficiency in a language other than English at the undergraduate level equivalent to a minimum of six credits.

	I	H	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
THIRD YEAR	FALL	3	PHYS 3305	Classical Mechanics			PHYS 2426 and MATH 2415.	Physics core requirement.
		4	PHYS 3411	Math Methods for Physicist I			MATH 3341	Physics core requirement.
		3	PHYS 3303	Thermodynamics			MATH 2415 and either PHYS 2412 or PHYS 2426.	Physics core requirement.
		3	UTCH 3302	Classroom Interactions	c		(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.	UTeach requirement
		3	xxxx x3xx	Free Elective				Language Proficiency Requirement (as needed).
		<b>16 Semester Total Hours</b>						
	SPRING	3	xxxx x3xx	Free Elective				Language Proficiency Requirement (as needed).
		3	PHYS 4305	Statistical Mechanics			PHYS 3303 and PHYS 3311.	Physics core requirement.
		1	PHYS 4101	Senior Laboratory Research			Consent of instructor.	Physics core requirement.
		3	READ 4305	Disciplinary Literacy in Content Area Classrooms				
		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".	UTeach requirement
		<b>13 Semester Total Hours</b>						
FOURTH YEAR	FALL	3	PHYS 3304	Optics			MATH 2415 and either PHYS 2412 or PHYS 2426.	Physics core requirement.
		3	PHYS 3301	Electromagnetic Theory I			MATH 2415 and either PHYS 2426 or PHYS 2412.	Physics core requirement.
		3	PHYS 4303	Quantum Mechanics I			PHYS 3305 and PHYS 3311.	Physics core requirement.
		3	PHYS 4300	Undergraduate Research			Senior standing in the Physics Degree Program and consent of a supervising faculty member.	Capstone
		3	PHYS 4392	Research Methods			Grade C or better in the following: MATH 2413 (or MATH 2487) and UTCH 1102.	UTeach requirement
		<b>15 Semester Total Hours</b>						
	SPRING	1	UTCH 4101	Apprentice Teaching Seminar	c		(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.	UTeach requirement
		6	UTCH 4601	Apprentice Teaching	c		(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.	UTeach requirement
		<b>7 Semester Total Hours</b>						

#### 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 4 advance hours, as recommended by advisor.

#### Graduation Requirements:

In addition to the graduation requirements listed in the UTRGV 2018-2019 Undergraduate Catalog, demonstration of proficiency in a language other than English is required at the undergraduate level equivalent to a minimum of six credit hours. Proficiency can be demonstrated by a college credit exam, a placement test approved through the UTRGV department of Writing and Language Studies, and/or to six credit hours of college-level language coursework.

**120 TOTAL HOURS**  
**(58) TOTAL ADVANCED HOURS**

Approved: Thursday, March 29, 2018  
Revised: Sunday, July 22, 2018