

		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	Creative Arts (Core)		050		See General Education Core for course options.	
				UNIV 1301	Learning Framework				Only if required, based on ACT/SAT and high school rank.	
	13 Semester Total Hours									
	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.			
17 Semester Total Hours										
SECOND YEAR	FALL		4	MATH 2415	Calculus III	c		MATH 2414 (or MATH 2488) with a grade of 'C' or better.		
			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: POLS 2305 or POLS 2385 (H)	
			3	XXXX X3XX	Science Elective				See Degree Plan for course options.	
			3	XXXX X3XX	Free Elective				Language Proficiency Requirement (as needed)	
	17 Semester Total Hours									
	SPRING		3	MATH 3341	Differential Equations			MATH 2414 (or MATH 2488) and MATH 2318 with a grade of 'C' or better.		
			3	XXXX X3XX	Science Elective				See Degree Plan for course options.	
			4	PHYS 3402	Modern Physics			PHYS 2426	Physics core requirement.	
			3	Choose 1	Government/Political Science (Core)		070		See General Education Core for more details Options: POLS 2306 or POLS 2386 (H)	
		3	XXXX X3XX	Free Elective				Language Proficiency Requirement (as needed)		
16 Semester Total Hours										

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

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.

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 3303	Thermodynamics			MATH 2415 and either PHYS 2412 or PHYS 2426.	Physics core requirement.	
		4		PHYS 3411	Math Methods in Physics I			MATH 3341	Physics core requirement.	
		3		XXXX X3XX	Science Elective				See Degree Plan for course options.	
	3		Choose 1	Social and Behavioral Sciences (Core)			080		See General Education Core for course options.	
	3		PHYS 3305	Classical Mechanics				PHYS 2426 and MATH 2415.	Physics core requirement.	
			16 Semester Total Hours							
THIRD YEAR	SPRING	4		PHYS 3412	Math Methods in Physics II			PHYS 3411	Physics core requirement.	
		3		PHYS 4305	Statistical Mechanics			PHYS 3303 and PHYS 3311.		
		2		PHYS 4201 or PHYS 4101	Advanced Physics Lab or Senior Laboratory Research				Choose either PHYS 4101 or 4201. PHYS 4101 to be taken twice.	
		3		Choose 1	Language, Philosophy & Culture (Core)			040	See General Education Core for course options.	
		3		PHYS X3XX	Advanced Physics Elective				See degree plan for course options.	
		15 Semester Total Hours								
FOURTH YEAR	FALL	3		PHYS 4303	Quantum Mechanics I			PHYS 3305 and PHYS 3311.	Physics core requirement.	
		1		PHYS 4101	Laboratory Research			Consent of instructor.	Not needed if PHYS 4201 taken.	
		3		PHYS 3304	Optics			MATH 2415 and PHYS 2426	Physics core requirement.	
		3		PHYS 3301	Electromagnetic Theory I			MATH 2415 and either PHYS 2426 or PHYS 2412.	Physics core requirement.	
		1		PHYS 4108	Seminar in Physics			One year of physics and consent of instructor.	Physics core requirement.	
		3		PHYS X3XX	Advanced Physics Elective				See degree plan for course options.	
			14 Semester Total Hours							
	FOURTH YEAR	SPRING	3		PHYS 3302	Electromagnetic Theory II			PHYS 3301.	
			1		Choose 1	Integrative/Experiential Learning Option (Core)			090	See General Education Core for course options.
			3		PHYS 4304	Quantum Mechanics II			PHYS 4303.	
3				PHYS X3XX	Advanced Physics Elective				See Degree Plan for course options.	
3				PHYS 4300	Undergraduate Research			Senior standing in the Physics Degree Program and consent of a supervising faculty member.	Capstone.	
		13 Semester Total Hours								

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.

121 TOTAL HOURS
(54) TOTAL ADVANCED HOURS

Approved: Thursday, March 29, 2018
Revised: Friday, March 30, 2018