

	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.	Three Hour Lecture will satisfy the general education core. One Hour Lecture will satisfy the major requirement.	
		3	Choose 1	American History (Core)		060		See General Education Core for more details. Options: HIST 1301 or HIST 1387 or HIST/MASC 2327	
		1	Choose 1	Integrative/Experiential Learning Option (Core)		090		See General Education Core for course options.	
		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.
		14 Semester Total Hours							
FIRST YEAR	SPRING	3	Choose 1	Communication (Core)	C	010		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		030/090	MATH 2413 (or MATH 2487) and concurrent enrollment in MATH 2414 (or MATH 2488).	It is mandatory for students pursuing a BS in Physics to take face to face (onsite) lecture sections for PHYS 2425/2426	
		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.	It is mandatory for students pursuing a BS in Physics to take face to face (onsite) lecture sections for PHYS 2425/2426	
		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	Social and Behavioral Sciences (Core)		080		See General Education Core for course options.	
		3	Choose 1	Biophysics/Medical Physics Concentration				See degree plan for course options.	
		17 Semester Total Hours							
		SECOND YEAR	SPRING	3	MATH 3341	Differential Equations			MATH 2414 (or MATH 2488) with a grade of "C" or better
3	Choose 1			Biophysics/Medical Physics Concentration				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	Choose 1			Biophysics/Medical Physics Concentration				See degree plan for course options.	
16 Semester Total Hours									

CORE: The 2019-2020 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.

		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.
		3	Choose 1	Biophysics/Medical Physics Concentration				See degree plan for course options.
		4	PHYS 3411	Math Methods in Physics I			MATH 3341	Physics core requirement.
		3	PHYS 3305	Classical Mechanics			PHYS 2426 and MATH 2415.	
		3	Choose 1	Biophysics/Medical Physics Concentration				See degree plan for course options.
16 Semester Total Hours								
THIRD YEAR	SPRING	4	PHYS 3412	Math Methods in Physics II			PHYS 3411	Physics core requirement.
		3	PHYS 4306 or PHYS 4101	Advanced Physics Lab or Senior Laboratory Research (taken three times)			Consent of instructor.	PHYS 4101: take three times.
		3	PHYS 4305	Statistical Mechanics			PHYS 3303 and PHYS 3311.	Meets concentration req.
		3	Choose 1	Biophysics/Medical Physics Concentration				See degree plan for course options.
		3	Choose 1	Language, Philosophy & Culture (Core)		040		See General Education Core for course options.
16 Semester Total Hours								
		H	Course #	Course Title	Min. Grade	GEC	Prerequisite	Additional Notes
FOURTH YEAR	FALL	3	PHYS 4303	Quantum Mechanics I			PHYS 3305 and PHYS 3311.	Physics core requirement.
		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.
		3	XXXX X3XX	Free Elective				Language Proficiency Requirement (as needed)
		12 Semester Total Hours						
FOURTH YEAR	SPRING	3	PHYS 3302	Electromagnetic Theory II			PHYS 3301.	
			PHYS 4008	Seminar in Physics (Taken Twice)			One year in Physics and consent of instructor.	Physics core requirement.
		3	PHYS 4304	Quantum Mechanics II			PHYS 4303.	
		3	PHYS 4300	Undergraduate Research Project			Senior standing in the Physics Degree Program and consent of a supervising faculty member.	
		3	XXXX X3XX	Free Elective				Language Proficiency Requirement (as needed)
12 Semester Total Hours								

120 TOTAL HOURS
(54) TOTAL ADVANCED HOURS

Approved: Thursday, April 4, 2019
Revised: Monday, May 13, 2019