

COLLEGE OF NATURAL SCIENCES & MATHEMATICS

Bachelor of Science, Physics Four-Year Academic Map 2024-2025

YEAR 1	Semester 1 Fall				Semester 2 Spring				Total
	ENGL 1301	First Year Writing I	3	ENGL 1302	First Year Writing II	3			
	CHEM 1311	Fundamentals of Chemistry I	3	CHEM 1312	Fundamentals of Chemistry II	3			
	CHEM 1111	Fundamentals of Chemistry I Lab	1	CHEM 1112	Fundamentals of Chemistry II Lab	1			
	MATH 2413	Calculus I	4	MATH 2414	Calculus II	4			
	CORE	Social & Behavioral Sciences	3	PHYS 2325	University Physics I	3			
	Elective	Approved General Elective	1	PHYS 2125	University Physics I Lab	1			
	Semester Hours			15	Semester Hours			15	30

YEAR 2	Semester 1				Semester 2				Total
	MATH 2318	Linear Algebra	3	MATH 3331	Differential Equations	3			
	MATH 2415	Calculus III	4	PHYS 3315	Modern Physics I	3			
	PHYS 2326	University Physics II	3	CORE	American History	3			
	PHYS 2126	University Physics II Lab	1	CORE	Language, Philosophy & Culture	3			
	CORE	American History	3		Approved Natural Science Course	3			
	Semester Hours			14	Semester Hours			15	29

YEAR 3	Semester 1				Semester 2				Total
	MATH 3364	Introduction to Complex Analysis	3	CORE	Creative Arts	3			
	PHYS 3110	Seminar in Advanced Lab Analysis	1	PHYS 3214	Advanced Laboratory II	2			
	PHYS 3313	Advanced Lab	3	PHYS 3327	Thermal Physics	3			
	PHYS 3316	Modern Physics II	3	GOVT 2305	U.S. Govt: Congress, Pres., & Court	3			
	PHYS 3309	Intermediate Mechanics	3	Elective	NSM Capstone or Free Elective	3			
	GOVT 2306	U.S. and Texas Constitutions & Politics	3	MATH 3363 or MATH 4370	Intro to Partial Differential Equations or Mathematics for Physicists	3			
	Semester Hours			16	Semester Hours			17	33

YEAR 4	Semester 1				Semester 2				Total
	PHYS 4321	Intermediate Electromagnetic Theory	3	PHYS 4322	Intermediate Electromagnetic Theory II	3			
	PHYS 3312	Modern Optics and		Elective	Approved Advanced Physics Elective	3			
	PHYS 3112	Modern Optics Lab OR	4	Elective	NSM Capstone or Free Elective	6			
	PHYS 4421	Electronic Devices & Applications			Approved Natural Science Course	3			
	Elective	Approved Advanced Physics Elective	3						
	Elective	NSM Capstone or Free Elective	3						
	Semester Hours			13	Semester Hours			15	28
								120	

Students should meet with their academic advisor to formulate their own plan.

Updated on July 24, 2017