

# COLLEGE OF NATURAL SCIENCES & MATHEMATICS

## Bachelor of Science, Physics Four-Year Academic Map 2023-2024

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 Laboratory	1	
	Semester Hours			15	Semester Hours		15

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 Laboratory	1	CORE	Language, Philosophy & Culture	3	
	CORE	American History	3		Nat 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 Laboratory	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

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 <b>OR</b>	4	Elective	NSM Capstone or Free Elective	6	
	PHYS 4421	Elec Devices & Their Applications			Nat Science Course	3	
	Elective	Approved Advanced Physics Elective	3				
	Elective	NSM Capstone or Free Elective	3				
	Semester Hours			13	Semester Hours		15
							120

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

Updated on July 24, 2017