



College of Natural Sciences & Mathematics

Bachelor of Science - Physics

Four-Year Academic Map 2014-2015

Year 1	Semester 1			Semester 2			Total	
	ENGL 1303	First Year Writing I	3	ENGL 1304	First Year Writing II	3		
	CHEM 1331	Fundamentals of Chemistry	3	CHEM 1332	Fundamentals of Chemistry	3		
	CHEM 1111	Fundamentals of Chemistry Lab I	1	CHEM 1112	Fundamentals of Chemistry Lab II	1		
	MATH 1431	Calculus I	4	MATH 1432	Calculus II	4		
	CORE	Social & Behavioral Sciences	3	PHYS 1321	University Physics I	3		
	Elective	Approved General Elective	1	PHYS 1121	Physics Laboratory I	1		
Semester Hours			15	Semester Hours			15	30

Year 2	Semester 1			Semester 2				
	MATH 2331	Linear Algebra	3	MATH 3331	Differential Equations	3		
	MATH 2433	Calculus II	4	PHYS 3315	Modern Physics I	3		
	PHYS 1322	University Physics II	3	HIST 1378	The United States Since 1877	3		
	PHYS 1122	Physics Laboratory II	1	CORE	Language, Philosophy & Culture	3		
	HIST 1377	The United States to 1877	3		Natural Science Approved Course	3		
	Semester Hours			14	Semester Hours			15

Year 3	Semester 1			Semester 2				
	MATH 3364	Introduction to Complex Analysis	3	MATH 3363	Intro to Partial Differential Equations	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	POLS 1337	U.S. Govt: Congress, President, & Court	3		
	PHYS 3309	Intermediate Mechanics	3	Elective	Approved Elective, Minor Course	3		
	POLS 1336	U.S. and Texas Constitutions & Politics	3	CORE	Creative Arts	3		
Semester Hours			16	Semester Hours			17	33

Year 4	Semester 1			Semester 2				
	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 Elective		6
	PHYS 4421	Elec Devices & Their Applications						
	Elective	Approved Advanced Physics Elective	3					
	Elective	NSM Capstone or Free Elective	3					
	Natural Science Approved Course	3						
Semester Hours			16	Semester Hours			12	28
							120	

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

