

Student Name: _____

Requirements for Major						
Course Prefix	Course Number	Major Requirements (<i>Pre-Requisite</i>)	Liberal Studies	Req. Hours	Semester Taught	Earned Hours
Math	145	Calculus 1	X	4	Fall	
Math	245	Calculus 2		4	Spring	
Math	246	Calculus 3		4	Fall	
Math	310	Differential Equations		3	Even Spring	
Chem	123	General Chem 1		4	Fall	
Chem	124	General Chem 2		4	Spring	
Phys	221	General Physics 1		5	Fall	
Phys	222	General Physics 2		5	Spring	
Phys	227	Modern Physics		3	Fall	
Phys	340	Advanced Lab 1		2	Fall	
Phys	440	Advanced Lab 2		2	Fall	
Phys	321	Classical Mechanics		3	Even Spring	
Phys	325	Thermodynamics		3	Even Fall	
Phys	260	Circuit Analysis and Electronics Laboratory		3	Odd Spring	
Phys	335	Electromagnetic Theory		3	Even Spring	
Phys	425	Intro to Quantum Mechanics		3	Odd Spring	
Phys	250	Physics Seminar (3 courses at 1 credit hour each)		3	Spring	
Phys	486	Physics Capstone I		1	Fall	
Phys	496	Physics Capstone II		3	Spring	
Phys	165	Data Science		3	Odd Fall	
Phys	265	Scientific Programing		3	Even Spring	
		Subtotal			68	

		Students must pick 2 of the following electives			
Phys	323	Optics		3	Odd Fall
Phys	485	Special Topics (Repeatable with different sub topics)		3	On Demand
		Physics electives at 300-400 level		3-6	
		Subtotal		6	
Total Major Hours:				74	

DEGREE REQUIREMENTS					
BACHELOR OF ARTS:					
			Total Hours in Major:	74	
			Liberal Studies:	33	
			Suggested Courses:	0	
			ELECTIVES:	13	
			TOTAL GRADUATION HOURS:	120	

SUGGESTED SEQUENCE
Major: Traditional Physics Concentration
Starting Even Fall Semester

FALL OF YEAR ONE -Even			SPRING OF YEAR ONE -Odd		
Prefix and Number	Course Title	Credit Hours			
Math 145	Calculus I	4	Math 245	Calculus 2	4
Phys 221	General Physics 1	5	Phys 222	General Physics 2	5
			Phys 250	Physics Seminar	1
	Electives/Liberal Studies	6		Electives/Liberal Studies	5
	Total	15		Total	15

FALL OF YEAR TWO - Odd			SPRING OF YEAR TWO -Even		
Prefix and Number	Course Title	Credit Hours			
Phys 227	Modern Physics	3	Math 310	Differential Equations	3
Phys 340	Advanced Lab I	2	Phys 321	Classical Mechanics	3
Math 246	Calculus III	4	Phys 250	Physics Seminar	1
Phys 165	Data Science	3	Phys 265	Scientific Programming	3
	Electives/Liberal Studies	3		Electives/Liberal Studies	5
	Total	15		Total	15

SUGGESTED SEQUENCE
Major: Traditional Physics Concentration

Starting Even Fall Semester

FALL OF YEAR THREE Even			SPRING OF YEAR THREE –Odd		
Phys 325	Thermodynamics	3	Phys 425	Quantum Mechanics	3
Phys 440	Advanced Lab II	2	Phys 250	Physics Seminar	1
Chem 123	General Chemistry I	4	Phys 260	Circuits	3
	Electives/Liberal Studies	6	Chem 124	General Chemistry II	4
				Electives/Liberal Studies	4
	Total	15		Total	15

FALL OF YEAR FOUR – Odd			SPRING OF YEAR FOUR – Even		
Phys 323	Optics*	3	Phys 335	Electromagnetic Theory	3
Phys 486	Physics Capstone I	1	Phys 496	Physics Capstone II	3
	Electives/Liberal Studies	9-15			
				Electives/Liberal Studies	9
	Total	15		Total	15

Total Hours = 120

* Select 6 credit hours from the following courses: Phys 323 Optics, Phys 485 Special Topics, or other 300 or 400 level Physics Elective

SUGGESTED SEQUENCE
Major: Traditional Physics Concentration
Starting Odd Fall Semester

FALL OF YEAR ONE - Odd			SPRING OF YEAR ONE - Even		
Prefix and Number	Course Title	Credit Hours			
Math 145	Calculus I	4	Math 245	Calculus 2	4
Phys 221	General Physics 1	5	Phys 222	General Physics 2	5
Phys 165	Data Science	3	Phys 250	Physics Seminar	1
	Electives/Liberal Studies	6	Phys 265	Scientific Programming	3
				Electives/Liberal Studies	2
		Total			Total
		15			15

FALL OF YEAR TWO – Even			SPRING OF YEAR TWO- Odd		
Prefix and Number	Course Title	Credit Hours			
Phys 227	Modern Physics	3	Phys 260	Circuits	3
Phys 340	Advanced Lab I	2	Phys 250	Physics Seminar	1
Math 246	Calculus III	4			
				Electives/Liberal Studies	11
	Electives/Liberal Studies	6			
		Total			Total
		15			15

SUGGESTED SEQUENCE
Major: Traditional Physics Concentration
Starting Odd Fall Semester

FALL OF YEAR THREE – Odd			SPRING OF YEAR THREE - Even		
Phys 440	Advanced Lab II	2	Math 310	Differential Equations	3
Phys 323	Optics *	3	Phys 321	Classical Mechanics	3
Chem 123	General Chemistry 1	4	Phys 335	Electromagnetic Theory	3
			Chem 124	General Chemistry 2	4
	Electives/Liberal Studies	7-13			
				Electives/Liberal Studies	2
		Total			Total
		15			15

FALL OF YEAR FOUR – Even			SPRING OF YEAR FOUR - Odd		
Phys 325	Thermodynamics	3	Phys 250	Physics Seminar	1
Phys 486	Physics Capstone 1	1	Phys 496	Physics Capstone II	3
	Electives/Liberal Studies	11	Phys 425	Quantum Mechanics	3
				Electives/Liberal Studies	8
		Total			Total
		15			15

Total Hours = 120

* Select 6 credit hours from the following courses: Phys 323 Optics, Phys 485 Special Topics, or other 300 or 400 level Physics Elective