Parks College of Engineering, Aviation and Technology Department of Physics Bachelor of Science Curriculum

Freshman Year:

Semester 1:	CR	Semester 2:		
PHYS 1110 Introduction to Physics	1	PHYS 1610 Engineering Physics I	3	
CHEM 1110/1115 General Chemistry I/Lab	4	PHYS 1620 Engineering Physics I Laboratory	1	
ENGL 1900 or 1920 Adv. Strategies of Rhetoric	3	MATH 1520 Calculus II		
& Research or Adv. Writing for Professionals				
MATH 1510 Calculus I	4	CSCI 1060 Intro. to CS: Scientific Programming	3	
Humanities Elective	3	THEO 1000 Theological Foundations	3	
Total Credit Hours	15	Total Credit Hours	14	

Sophomore Year:

Semester 1:	CR	Semester 2:	CR
PHYS 1630 Engineering Physics II	3	PHYS 2610 Modern Physics I	3
PHYS 1640 Engineering Physics II Laboratory	1	PHYS 2620 Modern Physics Laboratory	1
MATH 2530 Calculus III	4	PHYS 3110 Classical Mechanics	3
CMM 2200 Small Group Presentation	1	MATH 3550 Differential Equations I	3
Allied Elective	3	MATH 3240 Numerical Analysis	3
Social Science Elective	3	Allied Elective	3
Total Credit Hours	15	Total Credit Hours	16

Junior Year:

Semester 1:	CR	Semester 2:	CR
PHIL 2050 Ethics	3	PHYS 4210 Electricity & Magnetism I	3
PHYS 4610 Quantum Mechanics	3	PHYS 3410 Thermodynamics & Statistical Mech.	3
MATH 3270 Adv. Mathematics for Engineers	3	PHYS 3860 Physics Research I	
Open Elective	3	MATH 4880 Probability & Statistics	3
PHYS 3610 Modern Physics II	3	Allied Elective	3
Total Credit Hours	15	Allied Elective	3
		Total Credit Hours	15

Senior Year:

Solitor Tears				
Semester 1:	CR	Semester 2:	CR	
PHYS 3510 Analog & Digital Electronics	4	PHYS 4880 Physics Research III	3	
PHYS Upper Level Course	3	PHYS 3310 Optics	3	
PHYS 4870 Physics Research II	0	PHYS 3320 Optics Laboratory	1	
Allied Elective	3	PHYS Upper Division Course	3	
Allied Elective	3	Allied Elective	3	
Cultural Diversity Elective	3	General Elective	3	
Total Credit Hours	16	Total Credit Hours	16	

Total Credit Hours: 122

Name:			
Advisor:			
B			
Prerequisites:			
CHEM 1110/1115 General Chemistry I/Lab			
CSCI 1060 Intro. to CS: Scientific Programming			
PHYS 1110 Introduction to Physics			
PHYS 1610 Engineering Physics I			
PHYS 1620 Engineering Physics I Lab			
PHYS 1630 Engineering Physics II			
PHYS 1640 Engineering Physics II Lab			
Knowledge of Differential & Integral Calculus:			
MATH 1510 Calculus I			
MATH 1520 Calculus II			
MATH 2530 Calculus III			
Required Courses:			
MATH 3550 Differential Equations I			
MATH 3270 Advanced Mathematics for Engineers			
MATH 4880 Probability & Statistics			
MATH 3240 Numerical Analysis			
PHYS 2610 Modern Physics I]	Physics Minor (22 Cr.)
PHYS 2620 Modern Physics Lab]	PHYS 1610-1640
PHYS 3110 Classical Mechanics	_]	PHYS 2610 (with lab)
PHYS 3310 Optics			and any three upper
PHYS 3320 Optics Laboratory		(division courses (1 with lab)
PHYS 3410 Thermodynamics & Statistical Mechanics			` ` `
PHYS 3510 Analog & Digital Electronics/Lab			
PHYS 3610 Modern Physics II	_		
PHYS 4210 Electricity & Magnetism I	_		
PHYS 4610 Quantum Mechanics	_		
Two additional courses selected from:	_		
PHYS 3120 Advanced Classical Mechanics			
PHYS 4220 Electricity & Magnetism II	_		
PHYS 4620 Application of Quantum Mechanics	_		
Allied Electives:			
Seven courses (21 hours) selected in consultation with a	nentor:	1.	
(21 notice) between in continuon (11 notice)		2.	
Research Experience:		3	
PHYS 3860 Physics Research I		4	
PHYS 4870 Physics Research II		5	
PHYS 4880 Physics Research III			
11115 1000 I hysics research in		7	
College Core:		, ·	
CMM 2220 Small Group Presentation			
Written Communication (ENGL1900 or 1920)			
PHIL 2050 Ethics			
THEO 1000 Theological Foundations			
Social/Behavioral Science Elective			
Humanities Elective			
General Elective (Social/Behavioral or Humanities)			
Cultural Diversity Elective	_		
Open Elective:	_		
One course			
One course			