

**BACHELOR OF SCIENCE IN
PHYSICS
ENGINEERING-PHYSICS CONCENTRATION
TOTAL CREDITS: 120**

First Year	FIRST SEMESTER		SECOND SEMESTER	
	ENG 131 - Freshman English I	3	ENG 132 - Freshman English II	3
	PHYS 152 - Pre-University Physics	3	PHYS 251 - University Physics I	3
	FS 102 - Freshmen Seminar	1	PHYS 217 - University Physics Lab I	1
	CHEM 131 - General Chemistry I	3	CHEM 132 - General Chemistry II	3
	CHEM 111 - General Chemistry Lab I	1	CHEM 112 - General Chemistry Lab II	1
	MATH 136 - Pre-Calculus	3	MATH 241 - Calculus I	4
		14 Hrs		15 Hrs

Second Year	THIRD SEMESTER		FOURTH SEMESTER	
	HIST 231 - History of the United States to 1877	3	HIST 232 - History of the United States since 1877	3
	PHYS 252 - University Physics II	3	PHYS 332 - Modern Physics	3
	PHYS 218 - University Physics Lab II	1	CS 124 - Fund. of Mach. Comp.	3
	MATH 242 - Calculus II	4	MATH 243 - Calculus III	4
	POLS 235 - Political Science I	3	POLS 236 - Political Science II	3
	CS 120 - Intro to Comp. & Prob. Solving	3		
	17 Hrs		16 Hrs	

Third Year	FIFTH SEMESTER		SIXTH SEMESTER	
	MATH 250 - Linear Algebra	3	MATH 251 - Differential Equations	3
	PHYS 336 - Thermodynamics & Stat.	3	PHYS 360 - Advanced Undergrad Lab	3
	PHYS 341 - Mechanics 1	3	SC 135 - Bus. and Prof. Communications	3
	*#1 - Engineering Elective 1	3	*#1 - Engineering Elective 2	3
	*#1 - LAB: Engineering Elective 1	1	*#1 - LAB: Engineering Elective 2	1
	CS 241 - Obj. Oriented Prog. Using C++	3	*ENG 2XX - Upper Level English	3
	16 Hrs		16 Hrs	

Fourth Year	SEVENTH SEMESTER		EIGHTH SEMESTER	
	PHYS 333 - Electricity and Magnetism	3	PHYS 338 - Math Methods I	3
	PHYS 415 - Senior Thesis I	1	PHYS 416 - Senior Thesis II	1
	PHYS 432 - Quantum Mechanics	3	PHYS 437 - Nuclear Physics	3
	PHYS 483 - Advanced Physics Elective	3	PHYS 484 - Topics in Physics	3
	*2 - Social Behavior Science Elective	3	MUSI 136/ ART 135 - Music Appreciation or Topics in Contemp. Art & Culture	3
	13 Hrs		13 Hrs	

*1 Engineering Elective 1 (ECE 131 (Lecture); ECE 131L (Lab), ECE 231 (Lecture); ECE 211 (Lecture))

Engineering Elective 2 (CIVE 141 (Lecture); CIVE 141L (Lab), CIVE 224 (Lecture); CIVE 224 (Lab))

*2 Social and Behavioral Science elective; consult with advisor: PSY 131 or SOC 157 or ECON 231

*ENG 2XX – African American Literature (ENG 244) or World Literature I or II (ENG 230 or ENG 231)

Courses at the 400 and 500 level in advanced topics in astrophysics, atomic and molecular physics, computational physics and medical health/radiation physics may replace engineering electives with the approval of student's faculty advisor.