

Department of Physics
Bachelor of Science in Engineering Physics
Major Code: PHYS
Concentration Code: ENGP

Curriculum Guide

Course	CR	Course	CR
Freshman Year: First Semester		Freshman Year: Second Semester	
PHYS 100	1	PHYS 241	3
PHYS 101	3	PHYS 251	1
MATH 131	4	MATH 132	4
GEEN 160	2	ENGL 101	3
ENGL 100	3	H/FA/S/BS Elective II ¹	3
H/FA/S/BS Elective ¹	3	FRST 101	1
Semester Total	16	Semester Total	15
Sophomore Year: First Semester		Sophomore Year: Second Semester	
PHYS 242	3	PHYS 305	3
PHYS 252	1	PHYS 306	3
MATH 224	3	PHYS 345	3
MATH 231	4	MATH 331	3
H/FA/S/BS Elective III ¹	3	H/FA/S/BS Elective IV ¹	3
Semester Total	14	Semester Total	15
Junior Year: First Semester		Junior Year: Second Semester	
PHYS 400	3	PHYS 416	3
PHYS 415	3	PHYS 375	2
PHYS 420	3	PHYS 3xx ²	3
Engineering Elective ⁴	3	Engineering Elective ⁴	3
Free Elective ⁵	3	Engineering Elective ⁴	3
Semester Total	15	Free Elective ⁵	1
Senior Year: First Semester		Senior Year: Second Semester	
PHYS 494 ³	3	PHYS 3xx ² Elective	3
PHYS 430	3	Engineering Elective ⁴	3
PHYS 475	2	Engineering Elective ⁴	3
PHYS 492	1	Free Elective ⁴	3
Engineering Elective ⁴	3	Free Elective ⁴	3
Engineering Elective ⁴	3	Semester Total	15
Semester Total	15		

Total Credit Hours: 120

¹Of the 12 total credit hours taken in the Humanities/Fine Arts and Social/Behavioral Sciences (H/FA/S/BS), 3 credit hours must be in Humanities/Fine Arts, 3 credit hours must be in Social/Behavioral Sciences, 3 credit hours must be completed in African-American culture and History and 3 credit hours must be completed in Global Awareness.

²Physics electives (6 hours) numbered 300 or above.

³PHYS 494 – capstone course.

⁴Students under guidance of a faculty advisor can choose any discipline in Engineering (24 hours).

⁵Free electives (6 hours) – It is suggested that at least 6 of these hours be FOLA courses.

MAJOR PROGRAM REQUIREMENTS

Students must earn a C- or better in PHYS courses.