

Effective 2019-2020

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

**Curriculum Guide**

<b>Course</b>	<b>CR</b>	<b>Course</b>	<b>CR</b>
<b>Freshman Year: First Semester</b>		<b>Freshman Year: Second Semester</b>	
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 <sup>1</sup>	3
H/FA/S/BS Elective <sup>1</sup>	3	FRST 101	1
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>15</b>
<b>Sophomore Year: First Semester</b>		<b>Sophomore Year: Second Semester</b>	
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 <sup>1</sup>	3	H/FA/S/BS Elective IV <sup>1</sup>	3
<b>Semester Total</b>	<b>14</b>	<b>Semester Total</b>	<b>15</b>
<b>Junior Year: First Semester</b>		<b>Junior Year: Second Semester</b>	
PHYS 400	3	PHYS 416	3
PHYS 415	3	PHYS 375	2
PHYS 420	3	PHYS 3xx <sup>2</sup>	3
Engineering Elective <sup>4</sup>	3	Engineering Elective <sup>4</sup>	3
Free Elective <sup>5</sup>	3	Engineering Elective <sup>4</sup>	3
<b>Semester Total</b>	<b>15</b>	Free Elective <sup>5</sup>	1
<b>Senior Year: First Semester</b>		<b>Senior Year: Second Semester</b>	
PHYS 494 <sup>3</sup>	3	PHYS 3xx <sup>2</sup> Elective	3
PHYS 430	3	Engineering Elective <sup>4</sup>	3
PHYS 475	2	Engineering Elective <sup>4</sup>	3
PHYS 492	1	Free Elective <sup>4</sup>	3
Engineering Elective <sup>4</sup>	3	Free Elective <sup>4</sup>	3
Engineering Elective <sup>4</sup>	3	<b>Semester Total</b>	<b>15</b>
<b>Semester Total</b>	<b>15</b>		

**Total Credit Hours: 120**

<sup>1</sup>Of 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.

<sup>2</sup>Physics electives (6 hours) numbered 300 or above.

<sup>3</sup>PHYS 494 – capstone course.

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

<sup>5</sup>Free 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.*