

## 2019-2020 Pathway for Bachelor of Science in Physics (Biological Physics)

*Please see your academic advisor to develop your individual plan. This is only meant to be a guide.*

**A maximum of 64 hours is transferable from a North Carolina Community College.**

<b>Freshman/First Year</b>							
<b>First Semester - Fall</b>				<b>Second Semester - Spring</b>			
CC Course	N.C. A&T Equivalent	Credit Hours	Required/Notes	CC Course	N.C. A&T Equivalent	Credit Hours	Required/Notes
ACA 122	FRST 101	1	AA/AS Required Course	CHM 152	CHEM 107/117	4	UGETC: Nat Sci - AS
CHM 151	CHEM 106	3	UGETC: Nat Sci-AA/AS	MAT 272	MATH132	4	UGETC: Math- AS
	CHEM 116	1		BIOL 110	BIOL 100	4	UGETC: Nat Sci-AA/AS
MAT 271	MATH 131	4	UGETC: Math- AS		PHYS 100	1	
ENG 111	ENGL 100	3	UGETC: Eng Comp-AA/AS	ENG 112 <i>or</i> ENG 113 <i>or</i> ENG 114	ENGL 101	3	UGETC: Eng Comp- AA/AS
	Afr. Amer History & Culture (AA) <sup>1</sup>	3					
<b>Total Credit Hours</b>			<b>15</b>	<b>Total Credit Hours</b>			<b>16</b>

<b>Sophomore/Second Year</b>							
<b>Third Semester - Fall</b>				<b>Fourth Semester - Spring</b>			
CC Course	N.C. A&T Equivalent	Credit Hours	Required/Notes	CC Course	N.C. A&T Equivalent	Credit Hours	Required/Notes
PHY 251	PHYS 241/251	4	UGETC: Nat Sci - AS	PHY 252	PHYS 242/252	4	UGETC: Nat Sci - AS
MAT 273	MATH 231	4	GEN ED: Math	BIO 112	BIOL 102	3	UGETC: Nat Sci - AS
	BMEN 220	3			BMEN 3252	3	
	GEEN 161	2			Social/Behavioral Sciences (SBS) <sup>1</sup>	3	
	Humanities/Fine Arts Elective I <sup>1</sup>	3					
<b>Total Credit Hours</b>			<b>16</b>	<b>Total Credit Hours</b>			<b>13</b>

### Junior/Third Year

#### Fifth Semester - Fall

#### Sixth Semester - Spring

CC Course	N.C. A&T Equivalent	Credit Hours	Required/Notes	CC Course	N.C. A&T Equivalent	Credit Hours	Required/Notes
BIO 275	BIOL 221	4	Pre-Major Elective		Global Awareness	3	
	PHYS 433	3			PHYS 375	2	
	PHYS 3xx <sup>2</sup>	3			PHYS 345	3	
	ENGL 331	3			PHYS 305	3	
	Concentration Elective <sup>4</sup>	3			PHYS 306	3	
<b>Total Credit Hours</b>			<b>16</b>	<b>Total Credit Hours</b>			<b>14</b>

### Senior/Fourth Year

#### Seventh Semester - Fall

#### Eighth Semester - Spring

CC Course	N.C. A&T Equivalent	Credit Hours	Required/Notes	CC Course	N.C. A&T Equivalent	Credit Hours	Required/Notes
	PHYS 494 <sup>3</sup>	3			Concentration Elective <sup>4</sup>	3	
	PHYS 430	3			Concentration Elective <sup>4</sup>	3	
	PHYS 475	2			Disciplinary Elective <sup>2</sup>	3	
	PHYS 492	1			PHYS 3xx <sup>2</sup>	3	
	Concentration Elective <sup>4</sup>	3			Free Elective <sup>5</sup>	3	
	Concentration Elective <sup>4</sup>	3					
<b>Total Credit Hours</b>			<b>15</b>	<b>Total Credit Hours</b>			<b>15</b>

**Total Required Hours: 120**

<sup>1</sup>Courses may only satisfy ONE general education requirement GL, AA, SBS, or HFA (e.g. LIBS 202 can satisfy HFA or AA, but not both).

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

<sup>3</sup>PHYS 494 - Physics capstone course.

<sup>4</sup>Concentration Electives - (15 credit hours). Students under guidance of a faculty adviser can choose courses from physics, biology, chemistry, or bioengineering.

<sup>5</sup>Free electives (3 credit hours)

### **MAJOR PROGRAM REQUIREMENTS**

*Students must earn a C or better in PHYS and MATH courses.*

**All of your GEN ED and UGETC requirements are satisfied, if you have earned an Associate in Arts or Associate in Science Degree from a North Carolina Community College.**