

2019-2020 Pathway for Bachelor of Science in Physics (Engineering 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.

Freshman/First Year							
First Semester - Fall				Second Semester - Spring			
CC Course	N.C. A&T Equivalent	Credit Hours	Required/Notes	CC Course	N.C. A&T Equivalent	Credit Hours	Required/Notes
MAT 2711	PHYS 101	3	UGETC:Math - AS	PHY251 & PHYS 252	PHYS 241 & PHYS 251	4	UGETC: Nat Sci- AS
	MATH 131	4		MAT 272	MATH 132	4	UGETC: Math -AS
	GEEN 160	2		ENG 112	ENGL 101	3	UGETC: Eng Comp-AA/AS
ENG 111	ENGL 100	3	UGETC: Eng Comp-AA/AS		Humanities/Fine Arts (HFA) ¹	3	
	Afr. Amer. History & Culture (AA) ¹	3		ACA 122	FRST 101	1	AA/AS Required Course
	PHYS 100	1					
Total Credit Hours			16	Total Credit Hours			15

Sophomore/Second Year							
Third Semester - Fall				Fourth Semester - Spring			
CC Course	N.C. A&T Equivalent	Credit Hours	Required/Notes	CC Course	N.C. A&T Equivalent	Credit Hours	Required/Notes
PHY 252 & PHY 252A	PHYS 242 & PHYS 252	4	UGETC:Nat Sci-AS		PHYS 305	3	
MAT 152	MATH 224	3	UGETC:Math - AA	PHY 253	PHYS 306	3	
MAT 273	MATH 231	4	GEN ED: Math		PHYS 345	3	
	Social/Behavioral Sciences (SBS) ¹	3			MATH 331	3	
					H/FA/S/BS ELECTIVE IV,II ¹	3	
Total Credit Hours			14	Total Credit Hours			15

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
PHY 131	PHYS 400	3			PHYS 416 or PHYS 422	3	
	PHYS 415	3			PHYS 375	2	
	PHYS 420	3			PHYS 3xx ²	3	
	Engineering Elective ⁴	3			Engineering Elective ⁴	3	
	ENGL 331	3			Engineering Elective ⁴	3	
					Free Elective	1	
Total Credit Hours 15				Total Credit Hours 15			

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 ³	3			PHYS 3xx ² Elective	3	
	PHYS 430	3			Engineering Electives ⁴	3	
	PHYS 475	2			Engineering Electives ⁴	3	
	PHYS 492	1			Engineering Elective ⁴	3	
	Engineering Elective ⁴	3			Free Elective ⁴	3	
	Engineering Elective ⁴	3					
Total Credit Hours 15				Total Credit Hours 15			

Total Required Hours: 120

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

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

³PHYS 494 - capstone course.

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

⁵ Free electives (4 hours).

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.