

2019-2020 Pathway for Bachelor of Science in Bioengineering (General)

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
ENG 111	ENGL 100	3	UGETC: Eng Comp	ENG 112	ENGL 101	3	UGETC: Eng Comp
CHM 151	CHEM 106	3	UGETC: Nat. Sci.	PHY 251	PHYS 241	3	UGETC: Nat. Sci.
	CHEM 116	1			PHYS 251	1	
EGR 150	GEEN 100	2	Pre-Major/Elective	MAT 272	MATH 132	4	GEN ED: Math
	GEEN 111	1		BIO 111	BIOL 101	4	UGETC: Nat. Sci.
MAT 271	MATH 131	4	UGETC: Math		GEEN 121	1	
Total Credit Hours				Total Credit Hours			
14				16			

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
See notes below ¹	Social/Behav Sci.	3			MATH 341	3	Pre-Major/Elective
	BMEN 220	3			CHEN 218	3	
MAT 273	MATH 231	4	GEN ED: Math	See notes below ²	Humanities/Fine Arts	3	
	MEEN 104	2		CHM 251	CHEM 221	3	Pre-Major/Elective
CHM 152	CHEM 107	3	UGETC: Nat. Sci.		CHEM 223	1	
	CHEM 117	1			GEEN 161	2	
Total Credit Hours				Total Credit Hours			
16				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
	BMEN 310	3			BMEN 320	3	
	CHEN 300	3			BMEN 325	2	
	MEEN 230	3			ECEN 340	3	
	BIOL 301	4			BMEN 311	3	
PHY 252	PHYS 242	3	UGETC: Nat. Sci.		BMEN 321	3	
	PHYS 252	1			BMEN 322	3	
Total Credit Hours		17		Total Credit Hours		17	

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
See notes below ³	Global Awareness	3		See notes below ⁴	AA Culture/History	3	
	BMEN 480	3			BMEN 481	3	
	BMEN 411	3			Adv Engr Elective	3	
	CHEN 312	4			Adv Sci <i>or</i> Engr Elective	3	
Total Credit Hours		13		Total Credit Hours		12	

Total Required Hours: 120

¹Social/Behavior Science- Select one of the following: BUS 125, ECO 251, ECO 252, HIS 131, HIS 132, HIS 221, HIS 222, HIS 223, HIS 112, HIS 122, POL 120, PSY 150, SOC 210, ANT 210, **or** HEA 110.

²Humanities Elective- Select one of the following: HUM 110, HUM 130, HUM211, HUM 212, HUM 240, ENG 261, ENG 262, ENG 273, MUS 110, PHI 210, REL 110, PHI 240, COM 110, **or** COM 111

³Global Awareness- Select one of the following: HIS 111, HIS 112, HIS 121, HIS 122, BUS 240, **or** REL 110.

⁴AA Elective- Select one of the following: ENG 273, HIS 221, HIS 222, **or** HIS 223.

MAJOR PROGRAM REQUIREMENTS

Students must earn a C or better in the following courses:

CHEM 106	MATH 131
CHEM 107	MATH 132
GEEN 100	MATH 231
MEEN 230	MATH 341
ECEN 340	PHYS 241
BMEN 220	PHYS 242
BMEN 320	BIOL 101
	BIOL 301

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.