

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

*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			
<b>Total Credit Hours</b>				<b>14</b>	<b>Total Credit Hours</b>				<b>16</b>

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 <sup>1</sup>	Social/Behav Sci.	3			MATH 341	3			
	BMEN 220	3			BMEN 218	3			
MAT 273	MATH 231	4	GEN ED: Math	See notes below <sup>2</sup>	Humanities/Fine Arts	3			
	BMEN 231	1							
	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			
<b>Total Credit Hours</b>				<b>17</b>	<b>Total Credit Hours</b>				<b>15</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
	BMEN 310	3			BMEN 320	3	
	CHEN 300	3			BMEN 325	2	
	MEEN 230	3			ECEN 340	3	
	BMEN 350	3			BMEN 311	3	
PHY 252	PHYS 242	3			BMEN 321	3	
	BMEN 252	1			BMEN 322	3	
<b>Total Credit Hours</b>		<b>16</b>		<b>Total Credit Hours</b>		<b>17</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
See notes below <sup>3</sup>	Global Awareness	3		See notes below <sup>4</sup>	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	
<b>Total Credit Hours</b>		<b>13</b>		<b>Total Credit Hours</b>		<b>12</b>	

**Total Required Hours: 120**

<sup>1</sup>Social/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.

<sup>2</sup>Humanities 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

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

<sup>4</sup>AA 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 431
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.**