

## 2019-2020 Pathway for Bachelor of Science in Chemistry (ACS Certified)

*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
CHM 151	CHEM 106/116	4	UGETC: Nat Sci-AA/AS	CHM 152	CHEM 107/117	4	UGETC: Nat Sci-AS
	CHEM 108	1			CHEM 190 & 109	1	
ENG 111	ENGL 100	3	UGETC: Eng Comp-AA/AS	MAT 271	MATH 131	4	UGETC: Math - AS
	AA Studies <sup>1</sup>	3		ENG 112	ENGL 101	3	UGETC: Eng Comp-AA/AS
	MATH 110	4			Humanity/ Fine Arts <sup>3</sup>	3	
	HPED <sup>2</sup>	1			HPED <sup>2</sup>	1	
<b>Total Credit Hours</b>			<b>16</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
	CHEM 208	1			CHEM 209	1	
CHM 251	CHEM 221	3	Pre-Major Elective	CHM 252	CHEM 222	3	Pre-Major Elective
	CHEM 290/CHEM 223	1			CHEM 291/CHEM 224	2	
MAT 272	MATH 132	4	UGETC: Math - AS		Math Elective <sup>6</sup>	3	
	Global Awareness <sup>4</sup>	3		PHY 251	PHYS 241	3	UGETC: Nat Sci- AS
	Soc.& Beha.Science <sup>5</sup>	3			PHYS 251	1	
<b>Total Credit Hours</b>			<b>15</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
	CHEM 308	1			CHEM 309	1	
	CHEM 231	3			CHEM 451	3	
	CHEM 232	2			CHEM 452	2	
	PHYS 242	3			CHEM 431	3	
	PHYS 252	1			CHEM 432	2	
	BIOL 101	4			CHEM 391	2	
	CHEM 390	2					
<b>Total Credit Hours</b>			<b>16</b>	<b>Total Credit Hours</b>			<b>13</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
	CHEM 408	1			CHEM 412	2	
	CHEM 490	2			Electives	3	
	CHEM 441	3			CHEM 497 (Capstone)	3	
	CHEM 443	1			CHEM 411	3	
	Advanced CHEM Elective7	3			CHEM 442	3	
	Free Elective	6			CHEM 444	1	
<b>Total Credit Hours</b>			<b>16</b>	<b>Total Credit Hours</b>			<b>15</b>

**Total Required Hours: 120**

<sup>1</sup>Select one of the following: ENGL 333, ENGL 334, HIST 106, HIST 107, HIST 103, LIBS 202, MUSI 220. Courses may only satisfy ONE general education requirement Global Awareness, African American, Social and Behavioral Sciences, **or** Humanities and Fine Arts (eg. LIBS 202 can satisfy Humanities/Fine Arts **or** African American, but not both).

<sup>2</sup>SSFM 226 may be substituted for the two courses in Physical Education.

<sup>3</sup>Select one of the following: ENGL 200, ENGL 201, ENGL 230, ENGL 231, ENGL 333, ENGL 334, LIBS 202, MUSI 216, MUSI 220, PHIL 101, PHIL 103, PHIL 104, PHIL 201, PHIL 266, PHIL 267, SPCH 250.

<sup>4</sup>Select one of the following: HIST 130, HIST 206, HIST 207, HIST 216, HIST 231, MGMT 221, PHIL 103, PHIL 201.

<sup>5</sup>Select one of the following: BUED 279, ECON 200, ECON 201, FCS 135, FCS 181, FCS 260, HIST 103, HIST 104, HIST 105, HIST 106, HIST 107, HIST 130, HIST 207, HIST 216, HIST 231, JOMC 240, POLI 110, PSYC 101, SOCI 100, SOCI 200, SSFM 226.

<sup>6</sup>Select MATH 231 **or** 431.

## **MAJOR PROGRAM REQUIREMENTS**

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

CHEM 106	CHEM 390
CHEM 107	CHEM 391
CHEM 108	CHEM 408
CHEM 109	CHEM 411
CHEM 116	CHEM 412
CHEM 117/CHEM 190	CHEM 431
CHEM 208	CHEM 432
CHEM 209	CHEM 441
CHEM 221	CHEM 442
CHEM 222	CHEM 443
CHEM 231	CHEM 444
CHEM 232	CHEM 451
CHEM 223/CHEM 290	CHEM 452
CHEM 224/CHEM291	CHEM 453
CHEM 308	CHEM 490
CHEM 309	CHEM 497 (capstone)
	Advanced CHEM Elective

**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.**