

**Template for CAA students earning an AS degree
who are interested in Chemistry
at Winston-Salem State University**

Part I: Complete the AS degree within the NCCCS as outlined.

Any program/major courses that satisfy the Universal General Education Transfer Component will be noted in the column "Required or Preferred by Major" up to the limits of each category.

Universal General Education Transfer Component (UGETC)

The following <u>two</u> English composition courses are required.							
English Composition (6 SCH)							
Prefix	Course Name	Credit Hours	Pre-requisites	University Course Equivalent	Credit Hours	Required or Preferred by Major	Notes
ENG 111	Expository Writing	3	None	ENG 1301	3		
ENG 112	Argument-Based Research	3	ENG 111	ELEC 1100	3		Counts as GE hours
Total Credit Hours Required		6			6		
Students will select <u>two</u> courses from at least two different disciplines:							
Humanities/Fine Arts (6 SCH)							
Prefix	Course Name	Credit Hours	Pre-requisites	University Course Equivalent	Credit Hours	Required or Preferred by Major	Notes
ART 111	Art Appreciation	3	None	ART 1301	3		
ART 114	Art History Survey I	3	None	ART 2301	3		
ART 115	Art History Survey II	3	None	ART 2302	3		
COM 231	Public Speaking	3	None	SPH 2341	3		
ENG 231	American Literature I	3	None	ENG 2313	3		
ENG 232	American Literature II	3	None	ENG 2314	3		

MUS 110	Music Appreciation	3	None	MUS 1301	3		
MUS 112	Introduction to Jazz	3	None	ELEC 1000	3		Counts as GE AOK
PHI 215	Philosophical Issues	3	ENG 111	PHI 2301	3		
PHI 240	Introduction to Ethics	3	ENG 111	PHI 2302	3		
Total Credit Hours Required		6			6		

Social /Behavioral Science (6 SCH)

Students will select two courses from at least two different disciplines:

Prefix	Course Name	Credit Hours	Pre-requisites	University Course Equivalent	Credit Hours	Required or Preferred by Major	Notes
ECO 251	Principles of Microeconomics	3	None	ECO 2311	3		
ECO 252	Principles of Macroeconomics	3	None	ECO 2312	3		
HIS 111	World Civilizations I	3	None	HIS 1301	3		
HIS 112	World Civilizations II	3	None	HIS 1302	3		
HIS 131	American History I	3	None	HIS 2306	3		
HIS 132	American History II	3	None	HIS 2307	3		
PSY 150	General Psychology	3	None	PSY 2301	3		
POL 120	American Government	3	None	POS 2311	3		
SOC 210	Introduction to Sociology	3	None	SOC 2301	3		
Total Credit Hours Required		6			6		

Mathematics (8 SCH)

Students will select two courses from the following:

Prefix	Course Name	Credit Hours	Pre-requisites	University Course Equivalent	Credit Hours	Required or Preferred by Major	Notes
MAT 171	Precalculus Algebra	4	None	MAT 1312	3		
MAT 172	Precalculus Trigonometry	4	MAT 171	MAT 1312	3		
MATH 263	Brief Calculus	4	MAT 171	MAT 2333	3		
MATH 271	Calculus I	4	MAT 172	MAT 2317	3	x	
Total Credit Hours Required		8			6		

Final General Education Courses (11-12 SHC) : These courses must be classified as UGETC or general education within the program.

Prefix	Course Name	Credit Hours	Pre-requisites	University Course Equivalent	Credit Hours	Category	Notes
CHM 152	General Chemistry II	4	CHM 151	CHE 2312+2112	4		
PHY 151	College Physics I	4	MAT 171	PHY 2321+2121	4		
PHY 152	College Physics II	4	PHY 151	PHY 2322+2122	4		
Total Credit Hours Required		11-12			12		

Total General Education Hours Required: 45

D HOURS (14-15 SHC): These courses must be classified as pre-major, elective or general education within the program.

Prefix	Course Name	Credit Hours	Pre-requisites	University Course Equivalent	Credit Hours	Category	Notes
ACA 122	College Transfer Success	1	None	UNI 001	1	GEC	required by CAA
MAT 272	Calculus II			MAT 2318	3		
CHM 251	Organic Chemistry I	4		CHE 3326 + 3126	4		
CHM 252	Organic Chemistry II	4		CHE 3327 + 3127	4		
	Take 2 hours of GE courses						

Other Required Hours (15-16 SCH): 14

Total Semester Credit Hours in Program: 60

Part II: Complete one of the Degree Plans

BS Chemistry

Semester 5

CHE 3321 - Quantitative Analysis	3
CHE 3121 - Quantitative Analysis Lab	1
CHE 3/4000 Elective	3

Elective	4
Elective	4
	14

Semester 6

CHE 3322 - Instrumental Analysis	3
CHE 3222 - Instrumental Analysis Lab	2
MAT 2318 Calculus II	3
Elective	4
Elective	4
	16

Semester 7

CHE 4311 - Physical Chemistry I	3
CHE 4111 - Physical Chemistry I Lab	1
Elective	3
Elective	3
Elective	4
	14

Semester 8

CHE 4241 - Senior Seminar	2
CHE 3/4000 Elective	3
Elective	3
Elective	4
Elective	4
	16