Template for CAA students earning an AA degree

who are interested in **Biology** at Winston-Salem State University

Part I: Complete the AA 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			
position (6 SCH)		1	required.			•
Course Name	Credit Hours	Pre-requisites	University Course Equivalent	Credit Hours	Required <u>or</u> Preferred by Major	Notes
Expository Writing	3	None	ENG 1301	3		
Argument-Based Research			ELEC 1100	3		Counts as GE hours
Hours Required	6			6		
			Students will coloct three			
Eine Arts (9 SCH)						
Course Name	Credit Hours	Pre-requisites	University Course Equivalent	Credit Hours	Required <u>or</u> Preferred by Maior	Notes
		•	ART 1301	3	,,,,,,,	
Art History Survey I			ART 2301	3		
Art History Survey II	3	None	ART 2302	3		
Public Speaking	3	None	SPH 2341	3		
American Literature I	3	None	ENG 2313	3		
American Literature II	3	None	ENG 2314	3		
Music Appreciation	3	None	MUS 1301	3		
	2	None	ELEC 1100	3		Meets GE AOK
Introduction to Jazz	5					
Introduction to Jazz Philosophical Issues		ENG 111	ELEC 1100	3		Meets GE AOK
	Expository Writing Argument-Based Research Hours Required Fine Arts (9 SCH) Course Name Art Appreciation Art History Survey I Art History Survey II Public Speaking American Literature I American Literature II	Course Name Credit Hours Expository Writing 3 Argument-Based Research 3 Hours Required 6 Fine Arts (9 SCH) Credit Hours YFine Arts (9 SCH) Credit Hours Art Appreciation 3 Art History Survey I 3 Art History Survey I 3 Art History Survey II 3 American Literature I 3 American Literature II 3	Course Name Credit Hours Pre-requisites Expository Writing 3 None Argument-Based Research 3 ENG 111 Hours Required 6 Fine Arts (9 SCH) Credit Hours Pre-requisites Art Appreciation 3 None Art History Survey I 3 None Art History Survey II 3 None Public Speaking 3 None American Literature II 3 None	Course NameCredit HoursPre-requisitesUniversity Course EquivalentExpository Writing3NoneENG 1301Argument-Based Research3ENG 111ELEC 1100Hours Required66Students will select three courses from at least two different disciplines:Fine Arts (9 SCH)Credit HoursPre-requisitesUniversity Course EquivalentArt Appreciation3NoneART 1301Art Appreciation3NoneART 2301Art History Survey I3NoneART 2302Public Speaking3NoneSPH 2341American Literature I3NoneENG 2313American Literature II3NoneENG 2314	Course NameCredit HoursPre-requisitesUniversity Course EquivalentCredit HoursExpository Writing3NoneENG 13013Argument-Based Research3ENG 111ELEC 11003Hours Required666Students will select three courses from at least two different disciplines:Course NameCredit HoursPre-requisitesUniversity Course EquivalentCredit HoursArt Appreciation3NoneART 13013Art History Survey I3NoneART 23013Art History Survey II3NoneART 23023Public Speaking3NoneSPH 23413American Literature I3NoneENG 23133American Literature II3NoneENG 23143	Course NameCredit HoursPre-requisitesUniversity Course EquivalentCredit HoursRequired or Preferred by MajorExpository Writing3NoneENG 13013Argument-Based Research3ENG 111ELEC 11003Hours Required66Students will select three courses from at least two different disciplines:Fine Arts (9 SCH)Credit HoursPre-requisitesUniversity Course EquivalentCredit

				Students will select three				
Social /Beha	vioral Science (9 SCH)			courses from at least two				
different disciplines:								
		Credit			Credit	Required <u>or</u>		
Prefix	Course Name	Hours	Pre-requisites	University Course Equivalent	Hours	Preferred by Major	Notes	
CO 251	Principles of Microeconomics	3	None	ECO 2311	3			
CO 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			
HS 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 9 9 9								
tai ei cait								
				Students will select <u>one</u> course				
Mathematic	s (3-4 SCH)			Students will select <u>one</u> course from the following:				
	s (3-4 SCH)							
	s (3-4 SCH)	Credit			Credit	Required <u>or</u>		
	s (3-4 SCH) Course Name	Credit Hours	Pre-requisites		Credit Hours	Required <u>or</u> Preferred by Major	Notes	
Mathematic Prefix		Hours	Pre-requisites None	from the following:			Notes	
Mathematic Prefix MAT 143	Course Name	Hours 3	-	from the following: University Course Equivalent	Hours		Notes	
Mathematic Prefix MAT 143 MAT 152	Course Name Quantitative Literacy	Hours 3 4	None	from the following: University Course Equivalent MAT 1323	Hours 3		Notes	
Mathematic Prefix MAT 143 MAT 152 MAT 171	Course Name Quantitative Literacy Statistical Methods I	Hours 3 4	None None None	from the following: University Course Equivalent MAT 1323 MAT 2326	Hours 3 3	Preferred by Major	Notes	
Mathematic Prefix MAT 143 MAT 152 MAT 171	Course Name Quantitative Literacy Statistical Methods I Precalculus Algebra	Hours 3 4 4	None None None	from the following: University Course Equivalent MAT 1323 MAT 2326	Hours 3 3 3	Preferred by Major	Notes	
Mathematic Prefix MAT 143 MAT 152 MAT 171	Course Name Quantitative Literacy Statistical Methods I Precalculus Algebra	Hours 3 4 4	None None None	from the following: University Course Equivalent MAT 1323 MAT 2326	Hours 3 3 3	Preferred by Major	Notes	
Mathematic Prefix MAT 143 MAT 152 MAT 171 Fotal Credit	Course Name Quantitative Literacy Statistical Methods I Precalculus Algebra	Hours 3 4 4	None None None	from the following: University Course Equivalent MAT 1323 MAT 2326 MAT 1312	Hours 3 3 3	Preferred by Major	Notes	
Mathematic Prefix MAT 143 MAT 152 MAT 171 Fotal Credit	Course Name Quantitative Literacy Statistical Methods I Precalculus Algebra Hours Required	Hours 3 4 4	None None None	from the following: University Course Equivalent MAT 1323 MAT 2326 MAT 1312 Students will select <u>4 SCH</u> from	Hours 3 3 3	Preferred by Major	Notes	
Mathematic Prefix MAT 143 MAT 152 MAT 171 Fotal Credit	Course Name Quantitative Literacy Statistical Methods I Precalculus Algebra Hours Required	Hours 3 4 4	None None None	from the following: University Course Equivalent MAT 1323 MAT 2326 MAT 1312 Students will select <u>4 SCH</u> from	Hours 3 3 3	Preferred by Major	Notes	
Mathematic Prefix MAT 143 MAT 152 MAT 171 Total Credit	Course Name Quantitative Literacy Statistical Methods I Precalculus Algebra Hours Required	Hours 3 4 4 3-4 3-4	None None None	from the following: University Course Equivalent MAT 1323 MAT 2326 MAT 1312 Students will select <u>4 SCH</u> from	Hours 3 3 3 3 3	Preferred by Major x	Notes	
Aathematic Prefix MAT 143 MAT 152 MAT 171 Total Credit Natural Scie Prefix	Course Name Quantitative Literacy Statistical Methods I Precalculus Algebra Hours Required nces (4 SCH)	Hours 3 4 4 3-4 Credit Hours	None None None	from the following: University Course Equivalent MAT 1323 MAT 2326 MAT 1312 Students will select <u>4 SCH</u> from the following courses:	Hours 3 3 3 3 Credit	Preferred by Major X Required <u>or</u> Preferred by Major		
Mathematic Prefix MAT 143 MAT 152 MAT 171 Total Credit Natural Scie Prefix AST 111/111	Course Name Quantitative Literacy Statistical Methods I Precalculus Algebra Hours Required Course Name Descriptive Astronomy I and Lak	Hours 3 4 4 3-4 Credit Hours	None None None Pre-requisites	from the following: University Course Equivalent MAT 1323 MAT 2326 MAT 1312 Students will select <u>4 SCH</u> from the following courses: University Course Equivalent	Hours 3 3 3 3 Credit Hours	Preferred by Major X Required <u>or</u> Preferred by Major	Notes	
Mathematic Prefix MAT 143 MAT 152 MAT 171 Total Credit Natural Scie Prefix AST 111/111	Course Name Quantitative Literacy Statistical Methods I Precalculus Algebra Hours Required nces (4 SCH) Course Name	Hours 3 4 4 3-4 Credit Hours 4	None None None Pre-requisites None	from the following: University Course Equivalent MAT 1323 MAT 2326 MAT 1312 Students will select 4 SCH from the following courses: University Course Equivalent ELEC 1100	Hours 3 3 3 3 Credit Hours 4	Preferred by Major X Required <u>or</u> Preferred by Major	Notes Meets GE AOK	
Mathematic Prefix MAT 143 MAT 152 MAT 152 MAT 171 Total Credit Natural Scie Prefix AST 111/111 AST 151/151 BIO 110	Course Name Quantitative Literacy Statistical Methods I Precalculus Algebra Hours Required Course Name Descriptive Astronomy I and Lat General Astronomy I and lab I Principles of Biology	Hours 3 4 4 3-4 Credit Hours 4	None None None Pre-requisites None None	from the following: University Course Equivalent MAT 1323 MAT 2326 MAT 1312 Students will select 4 SCH from the following courses: University Course Equivalent ELEC 1100 ELEC 1100	Hours 3 3 3 3 Credit Hours 4 5	Preferred by Major x Required or Preferred by Major	Notes Meets GE AOK	
Vathematic Prefix MAT 143 MAT 152 MAT 171 Fotal Credit Natural Scie Prefix	Course Name Quantitative Literacy Statistical Methods I Precalculus Algebra Hours Required Course Name Descriptive Astronomy I and Lak General Astronomy I and lab I	Hours 3 4 4 3-4 Credit Hours 4 4 4	None None None Pre-requisites None None None	from the following: University Course Equivalent MAT 1323 MAT 2326 MAT 1312 Students will select 4 SCH from the following courses: University Course Equivalent ELEC 1100 ELEC 1100 BIO 1301/1101	Hours 3 3 3 3 Credit Hours 4 5 4 4 5 4	Preferred by Major X Required <u>or</u> Preferred by Major	Notes Meets GE AOK	

PHY 110/11	0 Conceptual Physics and Lab	4	None	ELEC 1100	4		Meets GE AOK
otal Credit	t Hours Required	4			4		
Total UG	ETC Hours	31-32			31		
Ac	dditional General Education C	Courses (13-	-14 SHC) : These	e courses must classified as UG	ETC <u>or</u> gene	ral education v	vithin the CAA.
		Credit			Credit		
Prefix	Course Name	Hours	Pre-requisites	University Course Equivalent	Hours	Category	Notes
	Foreign Language I	3		Foreign Language I	3	GEC	
	Foreign Language II	3		Foreign Language II	3	GEC	
MAT 172	Pre-Calculus	3		MAT 1313	3	GEC	
BIO 112	General Biology II	4		BIO 2302 & 2102	4	GEC	
Total Credit	t Hours Required	13-14			13		
Total Gor	neral Education Hours						
i utai uti							
	l	15			ЛЛ		
	l	45			44		
Required							
Required		SHC): The	se courses must	be classified as pre-major, elec	tive <u>or</u> gene	eral education	within the CAA.
Required Ot	her REQUIRED HOURS (15-16	SHC): Thes Credit			tive <u>or</u> gene Credit		
Required Ot Prefix	her REQUIRED HOURS (15-16 Course Name	SHC): Thes Credit Hours	Pre-requisites	University Course Equivalent	tive <u>or</u> gene	Category	Notes
Required Ot Prefix ACA 122	her REQUIRED HOURS (15-16 Course Name College Transfer Success	SHC): Thes Credit Hours	Pre-requisites None	University Course Equivalent Elective	tive <u>or</u> gene Credit	Category GEC	
Required Ot Prefix ACA 122 MAT 271	her REQUIRED HOURS (15-16 Course Name College Transfer Success Calculus I	SHC): Thes Credit Hours 1 3	Pre-requisites None MAT 1313	University Course Equivalent Elective MAT 2317	tive <u>or</u> gene Credit	Category GEC GEC	Notes
Prefix ACA 122 MAT 271 PHY 151	her REQUIRED HOURS (15-16 Course Name College Transfer Success Calculus I College Physics I	SHC): Thes Credit Hours 1 3 4	Pre-requisites None MAT 1313 MAT	University Course Equivalent Elective MAT 2317 PHY 2321 +2121	tive <u>or</u> gene Credit	Category GEC GEC GEC	Notes
Prefix ACA 122 MAT 271 PHY 151 CHM 151	her REQUIRED HOURS (15-16 Course Name College Transfer Success Calculus I College Physics I General Chemistry I	SHC): Thes Credit Hours 1 3 4 4	Pre-requisites None MAT 1313 MAT None	University Course Equivalent Elective MAT 2317 PHY 2321 +2121 CHE 2311+2111	tive <u>or</u> gene Credit	Category GEC GEC GEC GEC	Notes
Prefix ACA 122 MAT 271 PHY 151 CHM 151	her REQUIRED HOURS (15-16 Course Name College Transfer Success Calculus I College Physics I	SHC): Thes Credit Hours 1 3 4 4	Pre-requisites None MAT 1313 MAT	University Course Equivalent Elective MAT 2317 PHY 2321 +2121	tive <u>or</u> gene Credit	Category GEC GEC GEC	Notes
Prefix ACA 122 MAT 271 PHY 151 CHM 151	her REQUIRED HOURS (15-16 Course Name College Transfer Success Calculus I College Physics I General Chemistry I	SHC): Thes Credit Hours 1 3 4 4	Pre-requisites None MAT 1313 MAT None	University Course Equivalent Elective MAT 2317 PHY 2321 +2121 CHE 2311+2111	tive <u>or</u> gene Credit	Category GEC GEC GEC GEC	Notes
Prefix ACA 122 MAT 271 PHY 151 CHM 151	her REQUIRED HOURS (15-16 Course Name College Transfer Success Calculus I College Physics I General Chemistry I	SHC): Thes Credit Hours 1 3 4 4	Pre-requisites None MAT 1313 MAT None	University Course Equivalent Elective MAT 2317 PHY 2321 +2121 CHE 2311+2111	tive <u>or</u> gene Credit	Category GEC GEC GEC GEC	Notes
Prefix ACA 122 MAT 271 PHY 151 CHM 151	her REQUIRED HOURS (15-16 Course Name College Transfer Success Calculus I College Physics I General Chemistry I	SHC): Thes Credit Hours 1 3 4 4	Pre-requisites None MAT 1313 MAT None	University Course Equivalent Elective MAT 2317 PHY 2321 +2121 CHE 2311+2111	tive <u>or</u> gene Credit	Category GEC GEC GEC GEC	Notes
Prefix ACA 122 MAT 271 PHY 151 CHM 151 CHN 152	her REQUIRED HOURS (15-16 Course Name College Transfer Success Calculus I College Physics I General Chemistry I	SHC): Thes Credit Hours 1 3 4 4	Pre-requisites None MAT 1313 MAT None	University Course Equivalent Elective MAT 2317 PHY 2321 +2121 CHE 2311+2111	tive <u>or</u> gene Credit	Category GEC GEC GEC GEC	Notes
Required Oth Prefix ACA 122 MAT 271 PHY 151 CHM 151 CHN 152 Other Requ	her REQUIRED HOURS (15-16 Course Name College Transfer Success Calculus I College Physics I General Chemistry I General Chemistry II Hours (15-16 SCH)	SHC): Thes Credit Hours 1 3 4 4 4 4 4 4 4 4 1 5-16	Pre-requisites None MAT 1313 MAT None MAT	University Course Equivalent Elective MAT 2317 PHY 2321 +2121 CHE 2311+2111	tive or generation Credit Hours 1 3 4 4 4 4 4 4 4 1 5 16	Category GEC GEC GEC GEC	Notes
Required Oth Prefix ACA 122 MAT 271 PHY 151 CHM 151 CHN 152 Other Requ	her REQUIRED HOURS (15-16 Course Name College Transfer Success Calculus I College Physics I General Chemistry I General Chemistry II	SHC): Thes Credit Hours 1 3 4 4 4 4 4 4 4 4 1 5-16	Pre-requisites None MAT 1313 MAT None MAT	University Course Equivalent Elective MAT 2317 PHY 2321 +2121 CHE 2311+2111	tive <u>or</u> gene Credit Hours 1 3 4 4 4 4 4	Category GEC GEC GEC GEC	Notes
Required Oth Prefix ACA 122 MAT 271 PHY 151 CHM 151 CHN 152 Other Requ	her REQUIRED HOURS (15-16 Course Name College Transfer Success Calculus I College Physics I General Chemistry I General Chemistry II Hours (15-16 SCH)	SHC): Thes Credit Hours 1 3 4 4 4 4 4 4 4 4 1 5-16	Pre-requisites None MAT 1313 MAT None MAT	University Course Equivalent Elective MAT 2317 PHY 2321 +2121 CHE 2311+2111	tive or generation Credit Hours 1 3 4 4 4 4 4 4 4 1 5 16	Category GEC GEC GEC GEC	Notes
Required Other Required	her REQUIRED HOURS (15-16 Course Name College Transfer Success Calculus I College Physics I General Chemistry I General Chemistry II ired Hours (15-16 SCH) Emester Credit Hours i	SHC): Thes Credit Hours 1 3 4 4 4 4 4 4 1 5-16	Pre-requisites None MAT 1313 MAT None MAT	University Course Equivalent Elective MAT 2317 PHY 2321 +2121 CHE 2311+2111	tive or generation Credit Hours 1 3 4 4 4 4 4 4 4 1 5 16	Category GEC GEC GEC GEC	Notes
Required Other Required	her REQUIRED HOURS (15-16 Course Name College Transfer Success Calculus I College Physics I General Chemistry I General Chemistry II Hours (15-16 SCH)	SHC): Thes Credit Hours 1 3 4 4 4 4 4 4 1 5-16	Pre-requisites None MAT 1313 MAT None MAT	University Course Equivalent Elective MAT 2317 PHY 2321 +2121 CHE 2311+2111	tive or generation Credit Hours 1 3 4 4 4 4 4 4 4 1 5 16	Category GEC GEC GEC GEC	Notes

BIO 2303 Scientific Writing	3
CHE 3226 Organic Chemistry I Laboratory	2
CHE 3326 Organic Chemistry I	3

PHY 2122 Physics II Laboratory PHY 2322 Physics II		1 3
Elective		4
Total		16
Semester 6		
BIO 3337 Biomolecules		3
BIO 3137 Biomolecules Laboratory		1
Elective Lab		1
BIO 3366 Genetics		3
BIO 3231 Microbiology		2
CHE 3127 Organic Chemistry II Laboratory		1
CHE 3327 Organic Chemistry II Total		<u> </u>
Semester 7		14
Semester /		
BIO 4164 Cell Biology Laboratory		1
BIO 4364 Cell Biology		- 3
Biology Elective		3
Biology Elective		3
Biology Elective		3
Elective		3
Total		16
Semester 8		
BIO 4276 Biology Seminar		2
BIO 4277 Investigation and Research III or BIO 3201 Tissu	ie Culture	2
Biology Elective		4
Biology Elective		4
Elective		3
Total		15
Total for the Upper Division		61
	Transfer	60
	WSSU	61
	Total	121