

## Recommendations for CAA students interested in the BS Chemistry degree at UNCW

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

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### Universal General Education Transfer Component

#### English Composition (6 SCH)

Prefix	Course Name	Credit Hours	Pre-requisites	UNCW Course Equivalent	Credit Hours	Required by Major	Notes
ENG 111	Expository Writing	3		ENG 101	3		
ENG 112	Argument-Based Research	3	ENG 111	ENG 201	3		
<b>Total Credit Hours Required</b>		<b>6</b>			<b>6</b>		

#### Humanities/Fine Arts (6 SCH) (from 2 different disciplines: one PHI course and one non-PHI course)

Prefix	Course Name	Credit Hours	Pre-requisites	UNCW Course Equivalent	Credit Hours	Required by Major	Notes
ART 111	Art Appreciation	3	None	ARH 001	3		
ART 114	Art History Survey I	3	None	ARH 201	3		
ART 115	Art History Survey II	3	None	ARH 202	3		
COM 231	Public Speaking	3	None	COM 101	3		
ENG 231	American Literature I	3	None	ENG 223	3		
ENG 232	American Literature II	3	None	ENG 224	3		
PHI 215	Philosophical Issues	3	ENG 111	PAR 101	3		
PHI 240	Introduction to Ethics	3	ENG 111	PAR 115	3		
MUS 110	Music Appreciation	3	None	MUS 115	3		
MUS 112	Introduction to Jazz	3	None	MUS 116	3		
<b>Total Credit Hours Required</b>		<b>6</b>			<b>6</b>		

#### Social /Behavioral Science (6 SCH) (from 2 different disciplines: one HIS course and one non-HIS course)

Prefix	Course Name	Credit Hours	Pre-requisites	UNCW Course Equivalent	Credit Hours	Required by Major	Notes
ECO 251	Principles of Microeconomics	3	None	ECN 221	3		
ECO 252	Principles of Macroeconomics	3	None	ECN 222	3		
HIS 111	World Civilizations I	3	None	HST 101	3		
HIS 112	World Civilizations II	3	None	HST 102	3		
HIS 131	American History I	3	None	HST 105	3		
HIS 132	American History II	3	None	HST 106	3		
PSY 150	General Psychology	3	None	PSY 105	3		
POL 120	American Government	3	None	PLS 101	3		
SOC 210	Introduction to Sociology	3	None	SOC 105	3		
<b>Total Credit Hours Required</b>		<b>6</b>			<b>6</b>		

#### Mathematics (8 SCH)

Prefix	Course Name	Credit Hours	Pre-requisites	UNCW Course Equivalent	Credit Hours	Required by Major	Notes
MAT 171	Precalculus Algebra	4	None	MAT 111	3		
MAT 172	Precalculus Trigonometry	4	MAT 171	MAT 112	3		
MAT 271	Calculus I	4	MAT 172	MAT 161	4	YES	take this course if possible
<b>Total Credit Hours Required</b>		<b>8</b>			<b>8</b>		

#### Natural Sciences (8 SCH)

Prefix	Course Name	Credit Hours	Pre-requisites	UNCW Course Equivalent	Credit Hours	Required by Major	Notes
CHM 151	General Chemistry I	4	None	CHM 101	4	Major requirement	
CHM 152	General Chemistry II	4	CHM 151	CHM 102	4	Major requirement	must be taken

**Total Credit Hours Required**      **8**

**Total UGETC Hours**      **34**

**8**

**34**

## Additional General Education / Pre-Major / Prerequisite Courses (26 SCH)

### General Education Courses

Prefix	Course Name	Credit Hours	Pre-requisites	UNCW Course Equivalent	Credit Hours	Category	Notes
ACA 122	College Transfer Success	1		UNI 001	1		
Foreign Language 111		3		ASL 111 or SPN 101 or FRE 101 ...	3		
Foreign Language 211		3		ASL 112 or SPN 102 or FRE 102 ...	3		
One additional Humanities or Fine Arts course		3			3		
One additional Social/Behavioral Science course		3			3		
PED 110	Fit and Well for Life	2		PED 101	2		
		15			15		

### Major Courses

PHY 151	College Physics I	4		PHY 101	4	Major requirement	
PHY 152	College Physics II	4	PHY 151	PHY 102	4	Major requirement	
OR				OR			<b>one sequence is required</b>
PHY 251	General Physic I			PHY 201		Major requirement	
PHY 252	General Physics II		PHY 251	PHY 202		Major requirement	
MAT 271	Calculus I		MAT 172	MAT 161		unless taken above	
MAT 272	Calculus II	4	MAT 271	MAT 162	4	Major requirement	take this course if possible
		12			12		

### Prerequisite Courses

BIO 111	General Biology	4	None	BIO 201	4	Major requirement	recommended
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**Total Additional GE / Pre-Major / Prereq Hours**

**27**

**27**

**Total Semester Credit Hours in Program**

**61**

**61**

## Part II: Complete BS Degree Plan Requirements

AS Degree from a NC community college, average scenario

Students must have course credits as listed below plus basic studies complete or almost complete

Student can graduate in four semesters

Transfer courses - assumes student has completed

UNCW equivalent

CHM 101-102	with labs	8	CHM 151-152
MAT 161-162	Calculus I	4	MAT 271-272 (NOT MAT 263)
PHY 101-102 or 201-202 with labs		8	PHY 151-152 or 251-252

BS Degree in Chemistry Requirements (124 credit hours required)  
 Insert University Studies Requirements appropriately.  
 You can switch courses between semesters. Pay attention to SP or FA only courses as well as Prerequisites.  
 Thematic clusters requirement will be fulfilled if a student take BIO 201, CHM 101 and MAT 161. (Modeling)  
 You can take either CHML 312 or CHML 365. CHML 365 is a spring only course.

Semester	Course	Cr. hrs	Course description	Pre-requisites	Univ Studies
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Junior Fall	1	CHM 211	3	Organic Chemistry I	CHM 101, CHM 102 (C or better)	
		CHML 211	1	Organic Chemistry I Lab	CHM 211 (pre or co-)	
		BIO 201	4	General Biology		
		CHM 235	2	Quantitative Analysis	CHM 102 (C or better)	
		CHML 235	2	Quantitative Analysis Lab	CHM 235 (pre or co-)	
		Language or elective	3			LGS or LDN if needed
			15			
Junior Spring	2	CHM 212	3	Organic Chemistry II	CHM 211 (C or better)	
		CHML 212	1	Organic Chemistry II Lab	CHM 212 (pre or co-)	
		CHM 320	4	Physical Chemistry I	CHM 102 (C or better), MAT 161(C- or better), MAT 162 (C- or better) and PHY 101 or 201	
		CHML 320	1	Physical Chemistry I Lab	CHM 320 (pre or co-)	Writing Intensive
		CHM 350	1	Intro to Chem. Research	CHM 211 or 235 Pre or Co-req	Writing Intensive, Information Literacy
		MAT 261	4	Multivariate Calculus	MAT 162	
		Elective	3			LGS or LDN if needed
			17			
Senior Fall	3	CHM 312	2	Advanced Tech. of Org.Chem	CHM 212 (C or better)	
		CHML 312 (or CHML365)	2	Advanced Tech. of Org.Chem Lab	CHM 312 (pre or co-)	
		MAT 361 or 335	3	Diff. Equation or Linear Algebra	MAT 261 (for MAT361) or MAT162 (for MAT335)	
		CHM 445 (Fall only)	3	Inorganic Chemistry	CHM 350, CHM 320	
		CHML 445 (Fall only)	1	Inorganic Chemistry Lab	CHM 445 (pre or co-)	
		CHM 495	1	Senior Seminar	CHM 350, 25 hs of chem. courses	Explorations Beyond the Classroom, Information Literacy, Capstone
		CHM Elective (See optio	3			WI or IL if needed
	15					
Senior Spring	4	CHM 365	3	Biochemistry	BIO 201, CHM 212	
		CHML 365 (SP only) or C	2	Biochemistry 1 lab	CHM 365 (pre or co-)	
		CHM 321 (SP only)	3	Physical Chemistry II	CHM 320 and MAT261	
		CHML 321 (Sp only)	1	Physical Chemistry II Lab	CHM 321 (pre or co-)	Writing Intensive
		CHM 435 (Sp only)	4	Analytical Chemistry	CHM 235, CHML 235, CHM312, CHML312 or CHML 365, CHM 320, CHML 320, PHY 102 or 202	WI or IL if needed
		Elective	3			
			16			
Total Credits		63				
Elective		CHM 425(Sp only)	3	Computational Chemistry	CHM320	
		CHM 415(Fall only)	3	Physical Organic Chemistry	CHM 212, CHM320	
		CHM 466(Fall only)	3	Biochemistry II	CHM 365	
		CHM 485 (Sp only)	3	Industrial and Polymer Chemistry	CHM 212 and CHM 320	
		CHM 417 (Sp only)	3	Medicinal Chemistry	CHM 212 and CHM 365 or BIO 465)	
		CHM 486	3	Heterocycles	2 semesters of organic chemistry	
		CHM 491	up to 3	DIS		
		CHM 499	up to 3	Honors		Explorations Beyond the Classroom, Information Literacy, Capstone