

# Your Four Year Plan

## Year One

Get acquainted with the chemistry faculty. Complete General Chemistry (CHEM A111 and A112), and math requirements. Join a club or organization. Get involved with the campus community. Schedule a meeting with both your advisor and a Chemistry faculty member.

## Year Two

In the fall continue to complete chemistry and other general education requirements. Schedule a meeting with your faculty advisor early in the semester to get to know them and about the department. Those interested in a strong research background should speak with their professors and advisor about our undergraduate research program. For those who are on a pre-professional track be sure to check in with your advisor regarding courses that you can take to ensure you are on track for your desired goals. Be sure to be attending two ICE events per semester.

## Year Three

For those who are on a pre-professional track, be sure to speak with your faculty advisor about programs that you are interested in, and ensure you meet required deadlines and take the required exams for admittance. By this point you should be connected with a local industry to complete an internship in your field of study, and in an area that you wish to work post-graduation. Keep engaged with campus organizations and with campus activities. You should have completed half of your ICE events by this point. Your WPP will be due this spring, ensure you have that prepared.

## Year Four

At this time you should be completing your degree. Check in with your advisor to ensure that you are on track for your desired graduation (Spring, Summer, Fall). They should work with you to complete your graduation application. Complete your ICE events this year, and schedule an appointment with career services to line up employment or graduate school (if you have not already) during this year.

Bachelor of Science

# Chemistry

Computational Chemistry Concentration



U of SC Aiken

Chemistry and Physics

## Information about the Major

The Department of Chemistry and Physics at USC Aiken is a nationally approved program by the American Chemical Society (ACS). Our department strives to offer curricula of high academic quality, to foster an environment supportive of scholarly activity, to provide service courses for the general education of undergraduate students, and to serve as a resource for the community. To this end, the department offers a BA degree in Chemistry for students pursuing professional schools. This degree can be completed in just three years. The department also offers an ACS approved BS degree with a major in Chemistry and with concentrations in engineering, biochemistry, and computational chemistry.



***The end result of the program is a prepared student that is familiar with all areas of chemistry, able to work both independently and within groups, and able to communicate effectively.***

- Dr. Gerard Rowe, Department

To learn more about the Chemistry program visit us online.



U of SC Aiken

Chemistry and Physics

<https://www.usca.edu/chemistry-physics>



## Academic Advising

**Collytte Medders**

Professional STEM Academic Advisor

Connect with Collytte!

Email: [Collyttec@usca.edu](mailto:Collyttec@usca.edu)

Office Phone: 803-643-6819

Name: \_\_\_\_\_

VIP ID: \_\_\_\_\_

General Education:			
Course Requirement	Credit Hours	Semester	Grade
<b>English</b>			
ENGL A101– Composition *	3		
ENGL A102-Composition & Literature *	3		
<b>History of Western Civilization (HIST A101 or A102)</b>			
HIST A10__	3		
<b>Foreign Language (6-8 hrs. of same language)</b>			
*	4		
+	4		
<b>Oral Communication (COMM A201 or A241)</b>			
COMM A____*	3		
<b>Mathematics</b>			
MATH A141+* Calculus I	4		
MATH A142+* Calculus I I	4		
<b>Social and Behavioral Sciences (6 hrs. —2 areas)</b>			
	3		
	3		
<b>Humanities (9 hrs.—two different areas)</b>			
	3		
	3		
	3		
<b>American Political Institutions (POLI A201, HIST A201, HIST A202)</b>			
	3		
<b>Natural Sciences (4 hrs.)</b>			
BIOL A121—Biology I	4		
PHYS A211 Essentials of Physics I (Calculus)+	4		
PHYS A212 Essentials of Physics II +	4		
<i>Three hours from Social &amp; Behavioral Sciences or Humanities must be in Non-Western Studies</i>			

## Course Requirements–B.S. Chemistry (Computational): 2022—2023

Major Requirements			
Core Requirements	Credit Hours	Semester	Grade
CHEM A111 General Chemistry I*+	4		
CHEM A112 General Chemistry II *+	4		
CHEM A310 Research Methods *+	1		
CHEM A311 Intro Inorganic Chemistry & CHEM A311L*+	3 + 1	/	/
CHEM A321 Quantitative Analysis AND A321L*+	3 + 1	/	/
CHEM A331 Organic Chemistry I and CHEM A331L*+	3 + 1	/	/
CHEM A332 Organic Chemistry II and CHEM A332L*+	3 + 1	/	/
CHEM A350 Computational Modeling *+	1		
CHEM A499 Senior Research (2 semesters) *+	2 + 2	/	/
CHEM A541 Physical Chemistry I AND CHEM A541L*+	3 + 1	/	/
CHEM A542 Physical Chemistry II AND CHEM A542L*+	3 + 1	/	/
<b>Choose two of the following:</b>			
CHEM A511 Advanced Inorganic Chemistry*+	4		
CHEM A522 Instrumental Methods*+	1		
CHEM A550 Advanced Biochemistry*+	5		
<b>Cognate</b>			
BIO A541 Fundamentals of Biochemistry *+	4		
CSCI A146 Introduction to Algorithm Design II +	4		
CSCI A275 Physics Engine Integration +	3		
CSCI A125 Introduction to Computer Science	3		
MATH A174 Discrete Mathematics +	3-4		
CSCI A145 Introduction to Algorithm Design I +	4		

### The Center for Student Achievement

The staff in the Center for Student Achievement want you to be successful in your experience at USC Aiken. If there is something you need assistance with, please contact our office. The Center for Student Achievement is located on the first floor of the Gregg Graniteville Library behind the Learning Commons in suite 106.

Inter-Curricular Events (ICE)		
Events for Graduation (16)		
1	2	3
4	5	6
7	8	9
10	11	12
13	14	15
16	Shade in as you go!	

WPP Date:	
WPP Score:	

Non-Western Course (1 course)	
Semester:	

Writing-Intensive Courses	
Required for Graduation (3)	
Semester:	
Semester:	
Semester:	

Mark as you go!

\*must pass course with "C" or

+pre-rec required

Academic Advisors	
Advisor One (Fill in below)	
Advisor Two (Fill in below)	