



# Secondary Ed— Chemistry

## Bachelor of Science

### Information about the Major

Candidates seeking certification in Secondary Science Education – Chemistry will be certified to teach chemistry at the high school or grades 9-12 level. Each candidate receives a broad general education background and advanced preparation, including a research project, in chemistry. The candidates are required to complete at least 100 hours of clinical experience at the secondary level prior to their internship. The program meets the standards established for Secondary Science Education – Chemistry by the National Science Teachers Association



*USC-Aiken's School of Education is dynamic, intentional and full of passionate educators who go above and beyond in preparing the next generation of teachers. Thanks to the dedicated professors at USC Aiken, I feel confident in my transition from being the student in the classroom to the teacher of my own classroom one day.*

-Kelsey Spurlin, Secondary Education-English Major and Teaching Fellow

### Connect with us:



<https://usca.edu/education>

### Advising

Meet with Pre-Professional Academic Advisor  
Beth Martin:

In person: Gregg-Graniteville Library, 112C

Email: [Beth.Martin@usca.edu](mailto:Beth.Martin@usca.edu)

Phone: 803-641-3206

Course Requirements-Secondary-Chemistry: 2022-2023

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

Praxis Core \_\_\_\_\_ WPP: \_\_\_\_\_ Prof. Progr. App: \_\_\_\_\_  
 Reading: \_\_\_\_\_ Writing Intensive (WI) \_\_\_\_\_ USCA Intern App: \_\_\_\_\_  
 Writing: \_\_\_\_\_ SCDE CATS App: \_\_\_\_\_  
 Math: \_\_\_\_\_ Fingerprinting \_\_\_\_\_

Course Requirement	Credit Hours	Semester	Grade	Attribute
ENGL A101*-Composition	3			
ENGL A102*-Composition & Literature	3			
MATH A141*-Calculus	3			
MATH A142*-Calculus II	3			
COMM A241* (or A201)-Public Speaking (or Interpersonal)	3			
Foreign Language I*-FREN, GERM, SPAN-check placement	4			
Foreign Language II-2 semesters of the same language required	4			
Biological Science I-BIOL A121*	4			
Physics I: PHYS A201, or A211	4			
Social/Behavioral Science-SOCY, GEOG, ECON, POLI, PSYC	3			
Social/Behavioral Science-2 areas	3			
Humanities-ARTH, MUSC, THEA, PHIL, RELG, HONS, etc.	3			
Humanities-see above	3			
English Literature Course-ENGL A280+	3			
US History-HIST A201, HIST A202, or POLI A201	3			
History of Civilization- HIST A101 or HIST A102	3			

Pre-Professional Course Requirement*	Cr Hr	Semester	Grade	Attribute
EDUC A245-Technology Integration	2			
EDFN A321-Dynamics of American Public Education	3			
EDPY A334-Adolescent Growth & Dev	3			
EDRD A318-Foundations in Reading & Assessment	3			
EDSE A312-Teaching Diverse Populations	3			





Professional Program Course Listing*	Cr Hr	Semester	Grade	Attributes
<b>Spring Professional Program</b>				
EDRD A518-Content Area Reading/Writing	3			
EDSE A446-Classroom Management & Assessment	4			
<b>Fall Professional Program</b>				
EDSE A453-Teaching Science in High School	4			
<b>Student Teaching</b>				
EDSE A471-Internship	12			
EDSE A476-Senior Seminar	3			
<b>Subject Area Course Requirement*</b>	<b>Cr Hr</b>	<b>Semester</b>	<b>Grade</b>	<b>Attribute</b>
BIOL A541-Biochemistry	3			
CHEM A111-General Chemistry I	4			
CHEM A112-General Chemistry II	4			
CHEM A310-Research Methods in Chemistry	1			
CHEM A311 & L-Introduction to Inorganic & Lab	4			
CHEM A321 & L-Quantitative Analysis & Lab	4			
CHEM A331 & L-Organic I & Lab	1			
CHEM A332 & L-Organic II & Lab	3			
CHEM A511 & L-Inorganic Chemistry & Lab	4			
CHEM A522-Instrumental Analysis	5			
CHEM A541 & L-Physical Chemistry I & Lab	4			
CHEM A542 & L-Physical Chemistry II & Lab	4			
CHEM A499-Senior Research	3			
PHYS A202 or A212-Physics II	4			

\*must pass course with "C" or better

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*It's the small pieces that make the big picture.*

	FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
 <b>ACADEMICS</b>	<p>Work on your <b>General Education</b> courses.</p> <p>Consider taking your first <b>pre-professional Education</b> course such as EDFN A321.</p> <p>Review requirements for your scholarships, grants, and other <b>financial aid</b> such as GPA and credit hour minimums.</p> <p>Become familiar with the <b>Center for Student Achievement</b> resources such as personal tutoring, the Writing Center, and Math Lab.</p> <p>Start going to <b>ICE events</b>.</p>	<p>Still loving your <b>Chemistry</b> courses? Great! This subject area suits you well.</p> <p>Thinking about <b>switching your subject area</b>? Talk with your advisor to easily transition!</p> <p>Continue taking <b>General Education</b> courses, begin loading up on <b>pre-professional Education</b> courses, and really start working on those subject area courses.</p> <p>Keep working on <b>ICE events</b>—you should have at least 8 complete by the end of this year!</p>	<p>Finish remaining <b>General Education</b> and <b>pre-professional Education</b> courses in the first semester.</p> <p>Enroll in the <b>Spring or Fall Professional Program</b> courses for the second semester (depending on your date of entrance to the program) along with some subject area requirements.</p> <p>Turn in the <b>Writing Proficiency Portfolio (WPP)</b> or take <b>ENGL A201</b> by the end of the year.</p> <p>Finish <b>ICE Events</b> by the end of this year!</p>	<p>In the first semester, finish out your <b>subject area requirements</b> and the other <b>Professional Program semester (Fall/Spring)</b>.</p> <p>Enroll in <b>Senior Seminar</b> and <b>Internship</b> in your last semester.</p> <p>Check with your advisor that you have completed all degree requirements before the last semester begins.</p>
 <b>COMMUNITY</b>	<p>Attend <b>Get on Board Day</b> at the beginning of the semester to find clubs and organizations that you would be interested in joining—and join one!</p> <p>Join the <b>Council for Exceptional Children (CEC)</b></p> <p>Become familiar with the <b>Counseling Center</b> and <b>Student Health Center</b> resources available to students.</p>	<p>Visit the Student Life Office to find out about <b>Study Abroad</b> opportunities.</p> <p>Consider completing the <b>Leadership Certificate Program</b> through the Student Life Office.</p>	<p>Take part in a <b>research project</b> with a faculty member.</p> <p>Present at a <b>conference</b> and <b>UofSC Aiken Scholar Showcase</b>.</p> <p>Feeling overwhelmed? Visit the <b>Counseling Center</b> in B&amp;E 126 to get support and time management assistance.</p>	<p>Connect with the <b>Alumni Office</b> to stay involved after graduation.</p> <p>Build a <b>network</b> with alumni, faculty, staff, and classmates.</p>
 <b>SCHOOL OF EDUCATION</b>	<p>Maintain a minimum <b>2.75 GPA</b> to prepare for the Professional Program.</p> <p>See if you exempt the <b>Praxis Core</b> with your SAT or ACT score.</p>	<p>Consider applying for the <b>SC Teachers Loan and/or TEACH Grant</b> forgiveness programs.</p> <p>Look into “<b>add-on</b>” options for your teaching certification.</p>	<p>Submit your <b>Professional Program Application</b> through the SoE website.</p> <p>Attend the <b>Professional Program Induction Ceremony</b> to get officially inducted to the program.</p> <p>Apply to <b>Internship</b> with UofSC Aiken and the SC Department of Education one year before your last semester.</p>	<p>Obtain at least a <b>3.0 GPA</b> by the beginning of your last semester.</p> <p>Complete your <b>contact information form</b> during Senior Seminar.</p> <p>Complete your <b>certification recommendation form</b> during Senior Seminar.</p>
 <b>CAREER</b>	<p>Visit <b>Career Services</b> to find Work Study jobs on campus or part time jobs off-campus.</p>	<p>Look out for emails from <b>soe@usca.edu</b> about Summer Counselor and camp jobs.</p>	<p>Make the most of your <b>practicum placements</b> by completing more than the required hours to gain experience in the classroom.</p>	<p>Take the <b>Praxis Subject Assessment</b> and <b>Praxis Principles of Learning and Teaching (PLT)</b> exams before certification.</p> <p>After your degree is posted, submit an official transcript to the SC Department of Education.</p>