



**BACHELOR of SCIENCE in CHEMISTRY (#623)**  
**Teacher Certification; Double-Major with SKYTeach – Science and Math Education (SMED)**  
 Department of Chemistry  
 Ogden College of Science and Engineering  
 Western Kentucky University

The following four-year plan is an example of how to map your program in consultation with your faculty advisor. Every student will finish with a unique plan of his/her own depending on the electives selected.

**Success Markers**

**SAMPLE - 4 year plan**

<b>FIRST YEAR</b>  <i>Visit the AARC for free tutoring</i>	Fall Semester		Spring Semester	
	CHEM 120/121 – College Chemistry I (with a Lab)	5	CHEM 222/223 – College Chemistry 2 (with a Lab)	5
	MATH 117 - Trigonometry	3	MATH 136 – Calculus I	4
	SMED 101 – Introduction to Inquiry-Based Approaches to Teaching	1	SMED 102 – Introduction to Inquiry-Based Lesson Design	2
	ENG 100 – Intro to College Writing	3	General Education Course A-III	3
	HIST 119 – Western Civ to 1648 <b>OR</b> HIST 120 – Western Civ Since 1648	3	General Education Course F	1
	<b>TOTAL CREDIT HOURS</b>	<b>15</b>	<b>TOTAL CREDIT HOURS</b>	<b>15</b>

<b>SECOND YEAR</b>  <i>Volunteer or Join a Student Organization like Chemistry Club</i>	Fall Semester		Spring Semester	
	CHEM 330 – Quantitative Analysis	5	CHEM 314 – Introduction to Organic Chemistry	5
	PHYS 231/232 – Physics & Biophysics I (with a Lab)	4	PHYS 332/233 – Physics & Biophysics II (with a Lab)	4
	SMED 210 – Knowing and Learning in Mathematics and Science	3	SMED 320 – Classroom Interactions	3
	General Education Course B-I	3	SPED 330 – Introduction to Exceptional Education: Diversity in Learning	3
	<b>TOTAL CREDIT HOURS</b>	<b>15</b>	<b>TOTAL CREDIT HOURS</b>	<b>15</b>

<b>SUMMER TERM</b>  <i>Study Abroad! Why not visit South Africa?</i>	Summer Term	
	<b>TOTAL CREDIT HOURS</b>	

THIRD YEAR	Fall Semester		Spring Semester	
		CHEM 320 – Principles of Inorganic Chemistry	3	CHEM 446/447 – Biochemistry I (with Lab)
<i>Visit <a href="#">Career Services</a></i>	CHEM 399 – Research Problems in Chemistry	2	GEOL 111 – The Earth (with Lab)	4
	SMED 340 – Perspectives on Mathematics and Science	3	SMED 360 – Research Methods for Math and Science Teachers	3
	General Education Course C	3	General Education Course B-II	3
	General Education Course E	3		
	ENG 300 – Writing in the Disciplines	3		
	General Education Course F	1		
	<b>TOTAL CREDIT HOURS</b>	<b>18</b>	<b>TOTAL CREDIT HOURS</b>	<b>15</b>

FOURTH YEAR	Fall Semester		Spring Semester	
		CHEM 412 – Intro to Physical Chemistry	5	SEC 490 – Student Teaching
<i>Apply for Graduation <a href="#">CLICK HERE</a></i>	SMED 470 – Project Based Instruction	3	SMED 489 – Student Teaching Seminar	3
	General Education Course B-II	3		
	General Education Course C	3		
<i>Celebrate!</i>	General Education Course A-II	3		
	<b>TOTAL CREDIT HOURS</b>	<b>17</b>	<b>TOTAL CREDIT HOURS</b>	<b>13</b>

**Total Credit Hours:123**

\* Denotes prerequisite courses before admission

**PLEASE NOTE:** Prerequisites, Course Numbers, and Course Titles are subject to change. Consult your advisor each semester.

**FOR ADDITIONAL INFORMATION, PLEASE CONTACT:**

**For more Information:**

**Department:** Chemistry

**Website:** [www.wku.edu/chemistry](http://www.wku.edu/chemistry)

**Phone:** Chemistry – (270) 745-3457

**Email:** [chemistry@wku.edu](mailto:chemistry@wku.edu)

Course Descriptions: <http://www.wku.edu/undergraduatecatalog/>