



**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>	<b>Fall Semester</b>		<b>Spring Semester</b>	
	<i>Visit the AARC for free tutoring</i>	CHEM 120/121 – College Chemistry I & Lab	5	CHEM 222/223 – College Chemistry II & Lab
MATH 117 - Trigonometry		3	GEOL 111/113 – The Earth & Lab	4
SMED 101 – Introduction to Inquiry-Based Approaches to Teaching		1	SMED 102 – Introduction to Inquiry-Based Lesson Design	2
Foundation – College Composition		3	Foundation – Literary Studies	3
Foundation – World History		3	Foundation – Human Communication	3
<b>TOTAL CREDIT HOURS</b>		<b>15</b>	<b>TOTAL CREDIT HOURS</b>	<b>17</b>

<b>SECOND YEAR</b>	<b>Fall Semester</b>		<b>Spring Semester</b>	
	CHEM 330 – Quantitative Analysis	5	CHEM 340/341– Introduction to Organic Chemistry	5
PHYS 231/232 – Physics & Biophysics I &lab	4	PHYS 332/233 – Physics & Biophysics II & Lab	4	
SMED 310 – Knowing and Learning in Mathematics and Science	3	SMED 340 – Perspectives	3	
MATH 136 – Calculus I	4	Foundation – Writing in Disciplines	3	
<b>TOTAL CREDIT HOURS</b>	<b>16</b>	<b>TOTAL CREDIT HOURS</b>	<b>15</b>	

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

THIRD YEAR	Fall Semester		Spring Semester	
		CHEM 320 – Principles of Inorganic Chemistry	3	CHEM 412 – Intro to Physical Chemistry
<i>Visit <a href="#">Career Services</a></i>	SMED 320 – Classroom Interactions	3	SMED 360 – Research Methods for Math and Science Teachers	3
	Explorations –Social & Behavioral	3	LTCY 421 – Content-area reading	3
	Exploration – Arts & Humanities	3	Connections – Social/Cultural	3
	SPED 300 – Diversity in Learning	3		
	<b>TOTAL CREDIT HOURS</b>	<b>15</b>	<b>TOTAL CREDIT HOURS</b>	<b>14</b>

FOURTH YEAR	Fall Semester		Spring Semester	
		CHEM 446/447 – Biochemistry I & Lab	5	SEC 490 – Student Teaching
<i>Apply for Graduation <a href="#">CLICK HERE</a></i>	CHEM 399 – Research Problems in Chemistry	2	SMED 489 – Student Teaching Seminar	3
	SMED 470 – Project Based Instruction	3		
	Connections – Local to Global	3		
	Connections - Systems	3		
<i>Celebrate!</i>	<b>TOTAL CREDIT HOURS</b>	<b>16</b>	<b>TOTAL CREDIT HOURS</b>	<b>13</b>
				<b>Total Credit Hours:121</b>

\* Denotes prerequisite courses before admission

**PLEASE NOTE:** Prerequisites, Course Numbers, and Course Titles are subject to change.

Consult your advisor each semester.

Course Descriptions may be viewed at <http://www.wku.edu/catalog>

*Note: World Language requirement can be met by examination*

**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/undergraduatedcatalog/>