



**BACHELOR of SCIENCE in CHEMISTRY (#623)**  
**TEACHING CERTIFICATION MAJOR**  
**REQUIRES SECOND MAJOR IN SCIENCE AND MATH EDUCATION (#774)**  
 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>	
Visit <a href="#">ACDC</a> to meet your professional advisor AND Set up an appointment with your faculty mentor  <i>Volunteer or Join a Student Organization like Chemistry Club</i>	CHEM 120/121 College Chemistry I & Lab	5	CHEM 222/223 College Chemistry II & Lab	5
	Colonnade Foundations (F-QR) MATH 117 – Trigonometry	3	MATH 136 Calculus I	4
	Colonnade Explorations (E-SB) SMED 101 – Step 1: Introduction to Inquiry-Based Approaches to Teaching	1	Colonnade Explorations (E-SB) SMED 102 – Step 2: Introduction to Inquiry-Based Lesson Design	2
	Colonnade Foundations (F-W1) ENG 100 – Intro to College Writing	3	Colonnade Foundations (F-OC) COMM 145 – Fund of Speaking/Comm	3
	Colonnade Foundations (F-SB) HIST 101 or 102 – World History I or II	3	Colonnade Foundation (F-AH) ENG 200 – Intro to Literature	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>	
Apply for a TA position to gain experience  Visit <a href="#">ACDC</a> to discuss <a href="#">Career Development</a> advice	CHEM 330 Quantitative Analysis & Lab	5	CHEM 340/341 Organic Chemistry I & Lab	5
	PHYS 231/232 Biophysics I & Lab	4	PHYS 332/233 Biophysics II & Lab	4
	SMED 310 – Knowing and Learning in Mathematics and Science	3	SMED 340 Perspectives on Mathematics and Science	3
	SMED 320 Classroom Interactions	3	Colonnade Foundations (F-W2) ENG 300 – Writing in the Disciplines	3
	<b>TOTAL CREDIT HOURS</b>	<b>15</b>	<b>TOTAL CREDIT HOURS</b>	<b>15</b>

<b>SUMMER TERM</b>	<b>Summer Term</b>	
<b>TOTAL CREDIT HOURS</b>		

THIRD YEAR	Fall Semester		Spring Semester	
	<i>Consider being a Lead TA in CHEM 106 or 108</i>  <i>Apply for admission to the School of Teacher Education</i>	CHEM 320 Fundamentals of Inorganic Chemistry	3	CHEM 450/451 Physical Chemistry I & Lab
Colonnade Explorations (E-NS/SL) GEOL 111/113 – The Earth & Lab		4	SMED 360 – Research Methods for Math and Science Teachers	3
SPED 330 Diversity in Learning		3	LTCY 421 Content-area Reading	3
Colonnade Explorations (E-AH) Arts & Humanities (e.g. ART 100)		3	Colonnade Connections (K-LG) Local to Global (e.g. ANTH 388)	3
Colonnade Connections (K-SC) Social & Cultural (e.g. PSYS 350)		3		
<b>TOTAL CREDIT HOURS</b>		<b>16</b>	<b>TOTAL CREDIT HOURS</b>	<b>14</b>

FOURTH YEAR	Fall Semester		Spring Semester	
	<i>Apply for Graduation</i> <a href="#">CLICK HERE</a>	CHEM 446/447 Biochemistry I & Lab	5	SEC 490 Student Teaching
SMED 470 Project Based Instruction		3	SMED 489 Student Teaching Seminar	3
Colonnade Connections (L-SY) Systems (e.g. HMD 211)		3		
Electives		4		
<i>Celebrate!</i>	<b>TOTAL CREDIT HOURS</b>	<b>15</b>	<b>TOTAL CREDIT HOURS</b>	<b>13</b>

**Total Credit Hours:120**

**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>

**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/>