



AS Chemistry to  
Bachelor of Science in Chemistry –  
Chemistry Teacher Certification (8-12) Concentration <sup>T</sup>  
**Guided Pathway**  
Effective for the 2019-2020 Catalog



**First Year – Central Texas College**

FIRST SEMESTER	SECOND SEMESTER	THIRD SEMESTER
<sup>C</sup> MATH 1414 College Algebra	CHEM 1411 General Chemistry I	*CHEM 1412 General Chemistry II
<sup>C</sup> ENGL 1301 Composition I	<sup>C</sup> HIST 1302 United States History II	
<sup>C</sup> HIST 1301 United States History I	<sup>C*</sup> Component Area Option	
<sup>C</sup> BIOL 1406 Biology for Science Maj. I	<sup>C*</sup> Social/Behavioral Science Selection	
GEOL 1405 – Environmental Science	<sup>C</sup> PHYS 1401 College Physics I	

Total Semester Hours: 18

Total Semester Hours: 17

Total Semester Hours: 4

**Second Year – Central Texas College**

It's best to apply to Tarleton State University a full semester before you plan to transfer.

FIRST SEMESTER	SECOND SEMESTER
CHEM 2423 Organic Chemistry I	CHEM 2425 Organic Chemistry II
<sup>C</sup> PHYS 1402 College Physics II	<sup>C</sup> GOVT 2306 Texas Government
<sup>C</sup> GOVT 2305 Federal Government	<sup>C</sup> SPCH 1315, 1318 or 1321
<sup>C*</sup> Language/Philosophy/Culture Studies	<sup>C*</sup> Creative Arts Selection

Total Semester Hours: 14

Total Semester Hours: 13

**AS: Chemistry**

You will need to apply for the associate's degree at your community college. Contact your advisor there for more information.

**These courses may be completed at CTC (if offered) or TSU**

<sup>C</sup> ENGL 1302 – Composition II	MATH 2414 – Calculus II
<sup>C</sup> MATH 2413 – Calculus I	BCIS or COSC Elective

Total Semester Hours: 14

**Third Year – Tarleton State University**

FIRST SEMESTER	SECOND SEMESTER
<b>CHEM 3407</b> – Quantitative Analysis (Fall only)	<b>CHEM 4408</b> – Instrumental Analysis (Spring only)
<b>CHEM 4160</b> – Lab Safety & Ethics	<b>ENGL 3309</b> – Technical Writing and Document Design
<b>EDUC 3320</b> – Foundations of Teaching: Elementary (EC-6)	<b>EDUC 3330</b> – Models of Instruction
	<b>READ 3351</b> – Content Area Literacy

Total Semester Hours: 8

Total Semester Hours: 13

**Fourth Year – Tarleton State University**

FIRST SEMESTER	SECOND SEMESTER
<b>CHEM 3423</b> – Physical Chemistry I (Fall only)	<b>EDUC 4335</b> – Issues of Professionalism
<b>EDUC 4330</b> – Application of Effective Teaching Practices	<b>EDUC 4690</b> – Clinical Teaching
Advanced Elective	Advanced CHEM Elective
Advanced CHEM Elective	

Total Semester Hours: 13

Total Semester Hours: 12

Total Degree Hours: 126

**This is not an official degree plan. Check with an advisor; degree plans may change in later catalogs.**

Part-time students may also follow this sequence. Developmental coursework may be required.

\* You may take a different course to meet this requirement. A specific list is available from your advisor.

<sup>C</sup> This course counts for the Core Curriculum at any public college or university in Texas.

() Course numbers shown in parentheses are equivalent to these courses at Tarleton State University.

<sup>T</sup> Degree availability varies by campus; consult [www.tarleton.edu](http://www.tarleton.edu) for more information.

*For questions about the university portion of this pathway,  
contact the Chemistry, Geoscience and Physics department at 254-968-9143.*