

**AA- Teaching – Chemistry/7-12, Teacher Certification to
 Bachelor of Science in Chemistry
 Physical Science Teacher Certification Concentration^T
 Guided Pathway
 Effective for the 2019-2020 Catalog**

First Year – North Central Texas College

FIRST SEMESTER	SECOND SEMESTER
ENGL 1301 Composition I	ENGL 2311 Technical Writing
CHEM 1411 General Chemistry I*	HIST 1302 US History II or HIST 2301 Texas History
EDUC 1300 Learning Frameworks	MATH 2413 Calculus I*
HIST 1301 US History I	EDUC 1301 Intro to the Teaching Profession
MATH 1316 Trigonometry or MATH 2412 Pre-Calculus*	CHEM 1412 General Chemistry II*

Total Semester Hours: 16

Total Semester Hours: 17

Second Year – North Central Texas College

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

FIRST SEMESTER	SECOND SEMESTER
GOVT 2305 American National Government	GOVT 2306 Texas Government
SPCH 1311, 1315, or 1321	CHEM 2425 Organic Chemistry II or PHYS 1402 College Physics II*
CHEM 2423 Organic Chemistry I or PHYS 1401 College Physics*	HUMA 1301 Intro to Humanities or other Language/Philosophy/Culture Core
SOCI 1301 Intro to Sociology or other Social Science core	MUSI 1306 Music Appreciation or other Creative Arts core
EDUC 2301 Intro to Special Populations	

Total Semester Hours: 16

Total Semester Hours: 13

Associates of Arts- Teaching- Chemistry/7-12, Teacher Certification Major

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 NCTC or TSU

GEOL 1407 – Intro to Environmental Science (GEOL 1305+1105 or GEOL 1405)	PHYS 2425 – University Physics I (PHYS 2325+2125)
MATH 2414 – Calculus II	BCIS or COSC Elective
PHYS 2426 – University Physics II (2326+2126)	PSYC 2308 – Child Psychology

Total Semester Hours: 22

Third Year – Tarleton State University

FIRST SEMESTER	SECOND SEMESTER
CHEM 3407 – Quantitative Analysis (Fall only)	CHEM 4408 – Instrumental Analysis (Spring only)
CHEM 4160 – Lab Safety & Ethics	ENGL 3309 – Technical Writing and Document Design
EDUC 3320 – Foundations of Teaching: Elementary (EC-6)	EDUC 3330 – Models of Instruction
READ 3351 – Content Area Literacy	PHYS 3334 – Modern Physics I

Total Semester Hours: 11

Total Semester Hours: 13

Fourth Year – Tarleton State University

FIRST SEMESTER	SECOND SEMESTER
CHEM 3423 – Physical Chemistry I (Fall only)	EDUC 4335 – Issues of Professionalism
EDUC 4330 – Application of Effective Teaching Practices	EDUC 4690 – Clinical Teaching
Advanced CHEM Elective	MATH 3306 – Differential Equations OR MATH 3433 Calculus III

Total Semester Hours: 10

Total Semester Hours: 12-13

Total Degree Hours: 130

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.

^C This course counts for the Core Curriculum at any public college or university in Texas.

^T Degree availability varies by campus; consult www.tarleton.edu for more information.

*MATH 1314 is a prerequisite to CHEM 1411, and MATH 1314 along with either MATH 1316 or 2412 are prerequisites to MATH 2413 and PHYS 1401 or 2425. Until you have completed these prerequisites you will be under a General Studies major (AA or AS degree). Some Math prerequisites may be satisfied by earning required scores on CLEP, AP, IB, ACT, SAT, or an NCTC approved Math placement exam. Please see an advisor at NCTC for details.