



**AS General Studies-Chemistry Emphasis to
Bachelor of Science in Chemistry
Chemistry Teacher Certification (8-12) Concentration ^T
Guided Pathway
Effective beginning with the 2019-2020 catalog**



First Year - Collin College

(Developmental coursework may be required.)

FIRST SEMESTER	SECOND SEMESTER
^C ENGL 1301 Composition I	^C ENGL 1302 Composition II (or ENG 2311)
^C MATH 2413 Calculus I	^C CHEM 1412 General Chemistry II
^C Speech (see list below) – 3 hours	^C Lang, Phil, & Culture (see list below) - 3 hours
^C History (see list below) – 3 hours	^C History (see list below) – 3 hours
^C CHEM 1411 General Chemistry I	MATH 2414 Calculus II (090)

Total Semester Hours: 17

Total Semester Hours: 17

Second Year - Collin College

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

FIRST SEMESTER	SECOND SEMESTER
^C GOVT 2305 Federal Government	^C GOVT 2306 Texas Government
CHEM 2423 Organic Chemistry I	^C Creative Arts (see list below) – 3 hours
^C Social/Behavioral Science (see list below) -3 hours	CHEM 2425 Organic Chemistry II
MATH 2425 Calculus III	MATH 2320 Differential Equations

Total Semester Hours: 14

Total Semester Hours: 13

AS in General Studies – Chemistry Emphasis

Contact your advisor at Collin College for information about applying for your Associate's degree.

These courses may be completed at CC or TSU

GEOL 1407 – Intro to Environmental Science (GEOL 1305+1105 or GEOL 1405)	BCIS or COSC Elective
^C First Year Seminar Elective (Learning Frameworks)	General Elective
PHYS 1401 – College Physics I (PHYS 1301+1101)	PHYS 1402 – College Physics II (PHYS 1302+1102)
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

Total Semester Hours: 8

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 Elective	Advanced CHEM Elective
Advanced CHEM Elective	

Total Semester Hours: 13

Total Semester Hours: 12

Total Degree Hours: 129

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.

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

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

Speech – choose one from: **SPCH** 1311, 1315, or 1321

History – choose two from: **HIST** 1301, 1302, 2301

Language, Philosophy, & Culture - choose one from: **ENGL** 2322, 2323, 2327, 2328, 2332, 2333, 2342, 2343, **HIST** 2311, 2312, 2321, 2322, **HUMA** 1301, **PHIL** 1301, 1304, 2303, 2306, 2307, 2321

Creative Arts - choose one from: **ARTS** 1301, 1303, 1304, 1313, **DANC** 2303, **DRAM** 1310, 2361, 2362, 2366, **MUSI** 1306, 1307, 1310

Social and Behavioral Sciences – choose one from: **ANTH** 2302, 2346, 2351, **ECON** 2301, 2302, **PSYC** 2301, **SOCI** 1301, 1306

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