



**AS General Studies-Chemistry Emphasis to
Bachelor of Science in Chemistry
Physical Science Teacher Certification Concentration †
Guided Pathway**
Effective beginning with the 2019-2020 catalog



First Year - Collin College

(Developmental coursework may be required.)

| FIRST SEMESTER | SECOND SEMESTER |
|--------------------------------------|--|
| ◦ ENGL 1301 Composition I | ◦ ENGL 1302 Composition II (or ENG 2311) |
| ◦ MATH 2413 Calculus I | ◦ CHEM 1412 General Chemistry II |
| ◦ Speech (see list below) – 3 hours | ◦ Lang, Phil, & Culture (see list below) - 3 hours |
| ◦ History (see list below) – 3 hours | ◦ History (see list below) – 3 hours |
| ◦ 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 |
|---|--|
| ◦ GOVT 2305 Federal Government | ◦ GOVT 2306 Texas Government |
| CHEM 2423 Organic Chemistry I | ◦ Creative Arts (see list below) – 3 hours |
| ◦ 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.

Total Semester Hours: 22

These courses may be completed at CC or TSU

| | |
|---|--|
| GEOL 1407 – Intro to Environmental Science (GEOL 1305+1105 or GEOL 1405) | Elective |
| ◦ First Year Seminar Elective (Learning Frameworks) | BCIS or COSC Elective |
| PHYS 2425 – University Physics I (PHYS 2325+2125) | PHYS 2426 – University Physics II (2326+2126) |
| PSYC 2308 – Child Psychology | |

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: 129-130

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.

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

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

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

Collin Options: 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.*