



AS General Studies-Chemistry Emphasis to  
Bachelor of Science in Chemistry  
Professional Chemistry Concentration <sup>T</sup>  
**Guided Pathway**



Effective beginning with the 2020-2021 catalog

**First Year - Collin College**

(Developmental coursework may be required.)

FIRST SEMESTER	SECOND SEMESTER
<sup>c</sup> ENGL 1301 Composition I	<sup>c</sup> ENGL 1302 Composition II (or ENG 2311)
<sup>c</sup> MATH 2413 Calculus I	<sup>c</sup> CHEM 1412 General Chemistry II
<sup>c</sup> SPCH 1321 – Business & Professional Speaking	<sup>c</sup> Lang, Phil, & Culture (see list below) - 3 hours
<sup>c</sup> History (see list below) – 3 hours	<sup>c</sup> History (see list below) – 3 hours
<sup>c</sup> CHEM1411 General Chemistry I	MATH 2414 Calculus II (090)

**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
<sup>c</sup> GOVT 2305 Federal Government	<sup>c</sup> GOVT 2306 Texas Government
CHEM 2423 Organic Chemistry I	<sup>c</sup> Creative Arts (see list below) – 3 hours
<sup>c</sup> Social/Behavioral Science (see list below) -3 hours	CHEM 2425 Organic Chemistry II
MATH 2425 Calculus III	MATH 2320 Differential Equations

**AS in General Studies – Chemistry Emphasis**

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

**Third Year – Tarleton State University**

These courses may be completed at CC or TSU	
<b>BIOL 1406</b> – General Biology (BIOL 1306+1106)	<b>BIOL 1407</b> – General Biology II (BIOL 1307+1107)
<b>PHYS 2425</b> – University Physics I (PHYS 2325+2125)	<b>PHYS 2426</b> – University Physics II (PHYS 2326+2126)
<sup>c</sup> First Year Seminar Elective (Learning Frameworks)	General Elective
FIRST SEMESTER	SECOND SEMESTER
<b>CHEM 3407</b> – Quantitative Analysis (Fall only)	<b>CHEM 4328</b> – Inorganic Chemistry (Spring Only)
<b>CHEM 4374</b> – Biochemistry I (Fall only)	<b>CHEM 4408</b> – Instrumental Analysis (Spring only)
<b>CHEM 4160</b> – Lab Safety & Ethics	<b>CHEM 4378</b> – Biochemistry Lab (Spring Only)
<b>ENGL 3309</b> – Technical Writing and Document Design	<b>CHEM 3424</b> – Physical Chemistry II (Spring Only)
Advanced Elective	

**Fourth Year – Tarleton State University**

FIRST SEMESTER	SECOND SEMESTER
<b>CHEM 3423</b> – Physical Chemistry I (Fall only)	<b>CHEM 4327</b> – Qualitative Organic Analysis (Spring Even)
Advanced CHEM Elective	<b>CHEM 4086</b> – Chemistry Problems Research
Advanced CHEM Elective	Advanced Elective

**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.

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

<sup>()</sup> 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.

**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.