



**AS General Studies-Chemistry Emphasis to
Bachelor of Science in Chemistry
Biochemistry Concentration^T
Guided Pathway**
Effective beginning with the 2020-2021 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

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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.

These courses may be completed at CC or TSU

BIOL 1406 – General Biology (BIOL 1306+1106)	BIOL 1407 – General Biology II (BIOL 1307+1107)
Ⓒ First Year Seminar Elective (Learning Frameworks)	BCIS or COSC Elective
PHYS 1401 – College Physics I (PHYS 1301+1101)	PHYS 1402 – College Physics II (PHYS 1302+1102)

Total Semester Hours: 22

Third Year – Tarleton State University

FIRST SEMESTER	SECOND SEMESTER
BIOL 3303 - Genetics	CHEM 4160 – Lab Safety & Ethics
BIOL 3103 – Genetic Techniques	CHEM 4408 – Instrumental Analysis
CHEM 3407 – Quantitative Analysis (Fall only)	BIOL 3407 - Microbiology
CHEM 4327 – Quantitative Organic Analysis (Spring only) OR CHEM 4345 – Medicinal Chemistry (Fall only)	Advanced Elective
ENGL 3309 – Technical Writing and Document Design	

Total Semester Hours: 14

Total Semester Hours: 12

Fourth Year – Tarleton State University

FIRST SEMESTER	SECOND SEMESTER
BIOL 3413 - Molecular Biology (Fall only)	BIOL 4378 – Biochemistry Lab (Spring only)
CHEM 3423 – Physical Chemistry I (Fall only)	CHEM 4375 – Biochemistry II (Spring only)
CHEM 4374 – Biochemistry I (Fall only)	Advanced Elective

Total Semester Hours: 11

Total Semester Hours: 9

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.

Ⓒ 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.*