



AS Chemistry to
Bachelor of Science in Chemistry –
Pre-Pharmacy Concentration ^T
Guided Pathway
Effective for the 2019-2020 Catalog



First Year – Central Texas College

FIRST SEMESTER	SECOND SEMESTER	THIRD SEMESTER
^C MATH 1414 College Algebra	CHEM 1411 General Chemistry I	*CHEM 1412 General Chemistry II
^C ENGL 1301 Composition I	^C HIST 1302 United States History II	
^C HIST 1301 United States History I	^{C*} Component Area Option	
^C BIOL 1406 Biology for Science Maj. I	^{C*} Social/Behavioral Science Selection	
ECON 2301 – Principles of Microeconomics OR PSYC 2301 – General Psychology OR PSYC 2314 – Lifespan Growth and Development	BIOL 1407 – General Biology II	

Total Semester Hours: 17

Total Semester Hours: 17

Total Semester Hours: 4

Second Year – Central Texas College

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

FIRST SEMESTER	SECOND SEMESTER
CHEM 2423 Organic Chemistry I	CHEM 2425 Organic Chemistry II
^C PHYS 1401 College Physics I	^C GOVT 2306 Texas Government
^C GOVT 2305 Federal Government	^C SPCH 1315, 1318 or 1321
^{C*} Language/Philosophy/Culture Studies	^{C*} Creative Arts Selection

Total Semester Hours: 14

Total Semester Hours: 13

AS: Chemistry

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 CTC (if offered) or TSU

^C ENGL 1302 – Composition II	MATH 2414 – Calculus II
^C MATH 2413 – Calculus I	PHYS 1402 – College Physics II

Total Semester Hours: 15

Third Year – Tarleton State University

FIRST SEMESTER	SECOND SEMESTER
BIOL 3303 – Genetics	CHEM 4408 – Instrumental Analysis (Spring only)
BIOL 3103 – Genetic Techniques	BIOL 3407 – Microbiology
CHEM 3407 – Quantitative Analysis (Fall only)	MATH 3450 – Principles of Biostatistics
CHEM 4345 – Medicinal Chemistry (Fall only)	
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 Physiology (Fall only)	Advanced CHEM Elective
CHEM 3423 – Physical Chemistry I (Fall only)	Advanced CHEM Elective
CHEM 4374 – Biochemistry I (Fall only)	BIOL 4375 – Biochemistry II (Spring only) <u>OR</u> BIOL 4378 – Biochemistry Lab (Spring only)
CHEM 4160 – Lab Safety & Ethics	

Total Semester Hours: 12

Total Semester Hours: 8

Total Degree Hours: 127

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.

* You may take a different course to meet this requirement. A specific list is available from your advisor.

^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.

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