

**AA, General Studies- Pre-Med/Pre-Dental/Pre-Pharmacy to
Bachelor in Science in Chemistry
Pre- Medical and Pre-Dental Concentration ^T
Guided Pathway
Effective for the 2019-2020 Catalog**

First Year – North Central Texas College

FIRST SEMESTER	SECOND SEMESTER
ENGL 1301 Composition I	ENGL 2311 Technical Writing
HIST 1301 US History I	HIST 1302 US History II or HIST 2301 Texas History
EDUC/PSYC 1300 Learning Frameworks	MUSI 1306 or other Creative Arts core
MATH 2413 Calculus*	ANTH 2346 General Anthropology or other Social Science core
BIOL 1406 Biology for Science Majors I	BIOL 1407 Biology for Science Majors II

Total Semester Hours: 17

Total Semester Hours: 16

Second Year – North Central Texas College

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

FIRST SEMESTER	SECOND SEMESTER
GOVT 2305 American National Government	GOVT 2306 Texas Government
PHYS 1401 College Physics I	MATH 1342 Elementary Statistics
SPCH 1311 Intro to Communications, SPCH 1315 Public Speaking, or SPCH 1321 Business & Professional	PHYS 1402 College Physics II
^C PHIL 1301 – Introduction to Philosophy	CHEM 2425 Organic Chemistry II
CHEM 2423 Organic Chemistry I	

Total Semester Hours: 17

Total Semester Hours: 14

Associates of Arts- General Studies-Pre-Med/Pre-Dental/Pre-Pharmacy Majors

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 NCTC or TSU

MATH 2414 – Calculus II	^C CHEM 1412 – College Chemistry II (CHEM 1312+1112)
^C CHEM 1411 – College Chemistry I (CHEM 1311+1111)	

Total Semester Hours: 12

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)	BIOL 4185 – Seminar (Spring only)
CHEM 4345 – Medicinal Chemistry (Fall only)	MATH 3450 – Principles of Biostatistics

Total Semester Hours: 11

Total Semester Hours: 13

Fourth Year – Tarleton State University

FIRST SEMESTER	SECOND SEMESTER
BIOL 4460 – Animal Physiology	CHEM 4375 – Biochemistry II (Spring only)
CHEM 3423 – Physical Chemistry I (Fall only)	BIOL 3485 – Immunology
CHEM 4374 – Biochemistry I (Fall only)	ENGL 3309 – Technical Writing and Document Design
CHEM 4160 – Lab Safety & Ethics	

Total Semester Hours: 12

Total Semester Hours: 10

TOTAL: 122

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.

*MATH 1314 is a prerequisite to CHEM 1411, and MATH 1314 along with either MATH 1316 or 2412 are prerequisites to MATH 2413 and PHYS 1401 or 2425. Until you have completed these prerequisites you will be under a General Studies major (AA or AS degree). Some Math prerequisites may be satisfied by earning required scores on CLEP, AP, IB, ACT, SAT, or an NCTC approved Math placement exam. Please see an advisor at NCTC for details.

() 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.