

**AS- General Studies – Pre-Veterinarian to  
Bachelor of Science in Biomedical Science  
Pre-Veterinary Medicine Concentration<sup>T</sup>  
Guided Pathway  
Effective for the 2019-2020 Catalog**

**First Year – North Central Texas College**

FIRST SEMESTER	SECOND SEMESTER
HIST 1301 US History I	MUSI 1306 or other Creative Arts Core
BIOL 1406 Biology for Science Majors I	HIST 1302 or 2301 US History II or Texas History
EDUC 1300 Learning Frameworks	MATH 2413 Calculus I
CHEM 1411 General Chemistry I*	CHEM 1412 General Chemistry II*
MATH 2412 Pre-Calculus*	BIOL 1407 Biology for Science Majors II

Total Semester Hours: 18

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**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
SPCH 1315 Public Speaking or SPCH 1321 Business & Professional Communication	ENGL 2311 Technical Writing
PHYS 1401 General Physics I	HUMA 1301 Intro to Humanities or other Language/Philosophy/Culture Core
PSYC 2301 General Psychology	PHYS 1402 General Physics II
ENGL 1301 Composition I	

Total Semester Hours: 16

Total Semester Hours: 13

**Associates of Science – General Studies- Pre-Veterinarian Major**

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**

<b>AGRI 1419</b> – General Animal Science	
<b>CHEM 2423</b> – Organic Chemistry I (CHEM 2323+2123)	<b>CHEM 2425</b> – Organic Chemistry II

Total Semester Hours: 12

**Third Year – Tarleton State University**

FIRST SEMESTER	SECOND SEMESTER
<b>BIOL 2300</b> – Cell Biology	<b>MATH 3450</b> – Principles of Bio-Statistics
<b>BIOL 3303</b> – Genetics	<b>BIOL 3353</b> – Ecology and Evolution
<b>BIOL 3103</b> – Genetic Techniques	<b>ANSC 3409</b> – Feeds and Feeding or <b>ANSC 4306</b> – Animal Nutrition
<b>BIOL 3406</b> – Comparative Vertebrate Anatomy	<b>BIOL 4374</b> (Fall Only) – Biochemistry I

Total Semester Hours: 11

Total Semester Hours: 13-14

**Fourth Year – Tarleton State University**

FIRST SEMESTER	SECOND SEMESTER
<b>BIOL 4460</b> – Animal Physiology	<b>BIOL 4375</b> (Spring Only) – Biochemistry II
<b>ENGL 3309</b> – Technical Writing and Document Design	<b>BIOL 3380, 3395, 3402</b> (Summer Only), <b>3413, 3485, 4340, 4350, 4445, or 4378</b> (Spring Only)
<b>BIOL 1185</b> – Career Pathways in Biomedical Science	<b>BIOL 4398</b> – Current Topics in the Life Sciences
<b>BIOL 3407</b> – Microbiology	Advanced Elective Course

Total Semester Hours: 12

Total Semester Hours: 12-14

Total Degree Hours: 125-128

**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>T</sup> Degree availability varies by campus; consult [www.tarleton.edu](http://www.tarleton.edu) for more information.

**\*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.**