

AS- General Studies - Biology to
Bachelor in Science in Biomedical Science –
Pre-Veterinary Medicine 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 or 2301 US History II or Texas History |
| EDUC 1300 Learning Frameworks | MATH 2413 Calculus I* |
| BIOL 1406-Biology for Science majors I | BIOL 1407 Biology for Science majors II |
| MATH 2412 Pre-Calculus | MUSI 1306 or other Creative Arts Core |

Total Semester Hours: 17

Total Semester Hours: 17

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, or 1321 | CHEM 1412 General Chemistry II* |
| PHYS 1401 College Physics or PHYS 2425 University Physics I* | HUMA 1301 Intro to Humanities or other Language/Philosophy/Culture Core |
| CHEM 1411 General Chemistry I* | Elective PHYS 1402 College Physics II or PHYS 2426 University Physics II* |
| ^C PSYC 2301 – General Psychology | |

Total Semester Hours: 17

Total Semester Hours: 14

Associates of Science – General Studies- Biology 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

| | |
|---------------------------------------------------|----------------------------------------------------|
| CHEM 2425 - Organic Chemistry II (CHEM 2325+1125) | CHEM 2423 – Organic Chemistry I (CHEM 2323 + 2123) |
| AGRI 1419 – General Animal Science | |

Total Semester Hours: 12

Third Year – Tarleton State University

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

Total Semester Hours: 11

Total Semester Hours: 13

Fourth Year – Tarleton State University

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

Total Semester Hours: 12

Total Semester Hours: 12-14

TOTAL: 125

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.