

**AS- General Studies - Biology to  
Bachelor of Science in Biology – Molecular Concentration †  
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 1311, 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*
ANTH 2346 General Anthropology or other Social Science core	

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**

<b>CHEM 2423</b> – Organic Chemistry I (CHEM 2323+2123)	<b>CHEM 2425</b> – Organic Chemistry II (CHEM 2325+2125)
General Elective	

Total Semester Hours: 11

**Third Year – Tarleton State University**

FIRST SEMESTER	SECOND SEMESTER
<b>BIOL 2300</b> – Cell Biology	<b>BIOL 3407</b> – Microbiology
<b>BIOL 3303</b> – Genetics	<b>BIOL 3353</b> – Ecology and Evolution
<b>BIOL 3103</b> – Genetic Techniques	<b>BIOL 3485</b> – Immunology
<b>MATH 3450</b> – Principles of Bio-Statistics	
<b>ENGL 3309</b> – Technical Writing and Document Design	

Total Semester Hours: 14

Total Semester Hours: 11

**Fourth Year – Tarleton State University**

FIRST SEMESTER	SECOND SEMESTER
<b>BIOL 3413</b> – Molecular Biology (Fall Only)	<b>BIOL 4375</b> – Biochemistry II
<b>BIOL 3395</b> – Pathogenic Microbiology (Fall Only)	<b>BIOL 4378</b> – Biochemistry Lab (Spring Only)
<b>BIOL 4374</b> – Biochemistry I (Fall Only)	<b>BIOL 3430</b> – Phycology
<b>BIOL 4398</b> – Current Topics in the Life Sciences	

Total Semester Hours: 13

Total Semester Hours: 10

**TOTAL: 124**

**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.

† Degree availability varies by campus; consult [www.tarleton.edu](http://www.tarleton.edu) for more information.