



**AS Biology Field of Study to  
Bachelor in Science in Biomedical Science –  
Pre-Medical/Pre-Dental Concentration <sup>T</sup>  
Guided Pathway**  
Effective beginning with the 2019-2020 catalog



## First Year - Collin College

(Developmental/Pre-requisite coursework may be required.)

FIRST SEMESTER	SECOND SEMESTER
<sup>C</sup> ENGL 1301 Composition I	<sup>C</sup> ENGL 1302 Composition II (or ENG 2311)
<sup>C</sup> MATH 2412 Pre-Calculus Math or higher	<sup>C</sup> BIOL 1407 Biology for Science Majors II
<sup>C</sup> Speech (see list below) – 3 hours	<sup>C</sup> CHEM 1411 General Chemistry I
<sup>C</sup> History (see list below) – 3 hours	<sup>C</sup> History (see list below) – 3 hours
<sup>C</sup> BIOL 1406 Biology for Science Majors I	
17 credit hours	14 credit hours

## Second Year - Collin College

Apply to Tarleton State University a full semester before you plan to transfer.

FIRST SEMESTER	SECOND SEMESTER
<sup>C</sup> GOVT 2305 Federal Government	<sup>C</sup> GOVT 2306 Texas Government
PHYS 1401 College Physics I	<sup>C</sup> Creative Arts (see list below) – 3 hours
<sup>C</sup> PSYC 2301 – General Psychology	CHEM 2423 Organic Chemistry
CHEM 1412 General Chemistry II	PHYS 1402 – College Physics II (PHYS 1302+1102)
<sup>C</sup> Lang, Phil, & Culture (see list below) – 3 hours	
17 credit hours	14 credit hours

## AS Biology Field of Study

Contact your advisor at Collin College for information about applying for your Associate's degree.

### These courses may be taken at Collin College or TSU

Elective Course	<sup>C</sup> First Year Seminar Elective (Learning Frameworks)
Elective Course	<b>CHEM 2425</b> - Organic Chemistry II (CHEM 2325+1125)
Elective	

Total Semester Hours: 14-16

## 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>BIOL 1185</b> – Career Pathways in Biomedical Science
<b>BIOL 3406</b> – Comparative Vertebrate Anatomy	<b>BIOL 4374</b> (Fall Only) – Biochemistry I

Total Semester Hours: 11

Total Semester Hours: 11

## Fourth Year – Tarleton State University

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

Total Semester Hours: 11

Total Semester Hours: 13-14

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.

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

<sup>C</sup> This course counts for the Core Curriculum at any public college or university in Texas.

<sup>()</sup> Course numbers shown in parentheses are equivalent to these courses at Tarleton State University.

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

Speech – choose one from: **SPCH 1311, 1315, or 1321**

History – choose two from: **HIST 1301, 1302, 2301**

Language, Philosophy, & Culture – choose one from: **ENGL 2322, 2323, 2327, 2328, 2332, 2333, 2342, 2343, HIST 2311, 2312, 2321, 2322, HUMA 1301, PHIL 1301, 1304, 2303, 2306, 2307, 2321**

Creative Arts – choose one from: **ARTS 1301, 1303, 1304, 1313, DANC 2303, DRAM 1310, 2361, 2362, 2366, MUSI 1306, 1307, 1310**

Social and Behavioral Sciences – choose one from: **ANTH 2302, 2346, 2351, ECON 2301, 2302, PSYC 2301, SOCI 1301, 1306**

Elective – choose one course from any discipline (MATH 1342 or MATH 2413 highly recommended for prerequisite courses into STEM programs at 4 year universities).

*For questions about the university portion of this pathway,  
Contact the Biology Department at 254-968-9159*