



AS in General Studies – Biology Emphasis to  
Bachelor of Science in Biology  
With a Molecular Concentration<sup>T</sup>  
**Guided Pathway**  
Effective for the 2021-2022 Catalog  
**First Year – Collin College**



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

**Second Year – Collin College**

It's best to 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
<sup>c</sup> Lang, Phil, & Culture (see list below)	<sup>c</sup> Creative Arts (see list below)
<sup>c</sup> Social/Behavioral Sciences (see list below)	<sup>c</sup> CHEM 2423 – Organic Chemistry
<sup>c</sup> CHEM 1412 – General Chemistry II	* Elective (see list below) (TSU requires PHYS 1402 College Physics II)
<sup>c</sup> PHYS 1401 – College Physics I	
Total Semester Hours: 17	Total Semester Hours: 14

**AS: General Studies – Biology Emphasis**

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 CC (if offered) or TSU	
CHEM 2425 – Organic Chemistry II (CHEM 2325+2125)	* <sup>c</sup> Any Core Course (1 credit min)
General Elective	General Elective
Total Semester Hours: 7	Total Semester Hours: 4

**Third Year – Tarleton State University**

FIRST SEMESTER	SECOND SEMESTER
BIOL 2300 – Cell Biology	BIOL 3407 – Microbiology
BIOL 3303 – Genetics	BIOL 3353 – Ecology and Evolution
BIOL 3103 – Genetic Techniques	BIOL 3485 – Immunology
MATH 3450 – Principles of Bio-Statistics	
ENGL 3309 – Technical Writing and Document Design	
Total Semester Hours: 14	Total Semester Hours: 11

**Fourth Year – Tarleton State University**

FIRST SEMESTER	SECOND SEMESTER
BIOL 3413 – Molecular Biology (Fall Only)	BIOL 4375 – Biochemistry II
BIOL 3395 – Pathogenic Microbiology (Fall Only)	BIOL 4378 – Biochemistry Lab (Spring Only)
BIOL 4374 – Biochemistry I (Fall Only)	BIOL 3430 – Phycology
BIOL 4398 – Current Topics in the Life Sciences	
Total Semester Hours: 13	Total Semester Hours: 10

<sup>T</sup>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.

\* 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.

(I) 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.

**Collin Options:**

Mathematics – MATH 1314, 1316, 1342, 2305, 2318, 2320, 2412, 2413, 2414, 2415. AA/AAT degrees may also choose from: MATH 1324, 1325, 1332, 1350, 1351

Language, Philosophy, & Culture – ENGL 2322, 2323, 2327, 2328, 2332, 2333, 2341, HIST 2311, 2312, 2321, 2322, HUMA 1301, PHIL 1301, 1304, 2303, 2306, 2307, 2321

Creative Arts – ARTS 1301, 1303, 1304, 1313, DANC 2303, DRAM 1310, 2361, 2362, 2366, MUSI 1306, 1307, 1310

American History – HIST 1301, 1302, 2301

Social and Behavioral Sciences – ANTH 2302, 2346, 2351, ECON 1301, 2301, 2302, PSYC 2301, SOCI 1301, 1306

Speech – SPCH 1311, 1315, 1321

**\*Electives –**

BIOL 1322 – General Nutrition

BIOL 2389 – Academic Co-op Biology

BIOL 2401 – Anatomy and Physiology I

BIOL 2402 – Anatomy and Physiology II

BIOL 2406 – Environmental Biology

BIOL 2416 – Genetics

BIOL 2421 – Microbiology for Science Majors

CHEM 2425 – Organic Chemistry II

HITT 1305 – Medical Terminology I

MATH 1342 – Elementary Statistical Methods

PHYS 1402 – College Physics II

PHYS 2425 – University Physics I

PHYS 2426 – University Physics II