



AS in General Studies – Biology Emphasis to  
Bachelor of Science in Biology  
With a Terrestrial Ecology 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**

* <sup>C</sup> Any Core Course (1 credit minimum)	
Total Semester Hours: 1	

**Third Year – Tarleton State University**

FIRST SEMESTER	SECOND SEMESTER
BIOL 2300 – Cell Biology	BIOL 3407 – Microbiology
BIOL 3303 – Genetics	BIOL 4401 – Ecology
BIOL 3103 – Genetic Techniques	BIOL 3449 – Invertebrate Zoology
MATH 3450 – Principles of Bio-Statistics	BIOL 4320 – Behavioral Ecology
ENGL 3309 – Technical Writing and Document Design	
Total Semester Hours: 14	Total Semester Hours: 15

**Fourth Year – Tarleton State University**

FIRST SEMESTER	SECOND SEMESTER
BIOL 4445 – Parasitology <u>or</u> BIOL 3436 – Plant Physiology	BIOL 4398 – Current Topics in the Life Sciences
WSES 4309 – Plant-Animal Interactions	WSES 4311 – Fire Ecology
BIOL 4420 – Terrestrial Field Ecology	BIOL 4430 – Ornithology <u>or</u> BIOL 4440 – Herpetology <u>or</u> BIOL 4451 – Mammalogy
BIOL 3353 – Ecology and Evolution	Advanced BIOL Elective (4 credit min)
Total Semester Hours: 14	Total Semester Hours: 14

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