



AS in General Studies – Biology Emphasis to
Bachelor of Science in Biomedical Science
With a Pre-Pharmacy Concentration^T



Guided Pathway
Effective for the 2021-2022 Catalog
First Year – Collin College

| FIRST SEMESTER | SECOND SEMESTER |
|---|--|
| ^C ENGL 1301 – Composition I | ^C ENGL 1302 – Composition II or ENG 2311 |
| ^C MATH 2412 – Pre-Calculus Math or higher (see list below) | ^C BIOL 1407 – Biology for Science Majors II |
| ^C Speech (see list below) | ^C History (see list below) |
| ^C History (see list below) | ^C CHEM 1411 – General Chemistry I |
| ^C 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 |
|--|---|
| ^C GOVT 2305 – Federal Government | ^C GOVT 2306 – Texas Government |
| ^C Lang, Phil, & Culture (see list below) (TSU requires PHIL 1301 Introduction to Philosophy) | ^C Creative Arts (see list below) |
| ^C Social/Behavioral Sciences (see list below) (TSU requires ECON 2301 Principles of Macroeconomics) | ^C CHEM 2423 – Organic Chemistry |
| ^C CHEM 1412 – General Chemistry II | * Elective (see list below) |
| ^C 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

| | |
|--|---|
| PHYS 1402 – College Physics II (PHYS 1302+1102) or PHYS 2426 – University Physics II (PHYS 2326+2126) | ^C Any Core Course (1 credit minimum) |
| CHEM 2425 - Organic Chemistry II (CHEM 2325+1125) | |
| | Total Semester Hours: 9 |

Third Year – Tarleton State University

| FIRST SEMESTER | SECOND SEMESTER |
|--|---|
| BIOL 2300 – Cell Biology | BIOL 3407 – Microbiology |
| BIOL 3303 – Genetics | BIOL 1185 – Career Pathways in Biomedical Science |
| BIOL 3103 – Genetic Techniques | MATH 3450 – Principles of Bio-Statistics |
| BIOL 3406 – Comparative Vertebrate Anatomy | BIOL 4374 (Fall Only) – Biochemistry I |
| Advanced Elective | |
| Total Semester Hours: 14 | Total Semester Hours: 12 |

Fourth Year – Tarleton State University

| FIRST SEMESTER | SECOND SEMESTER |
|-----------------------------------|--|
| BIOL 4460 – Animal Physiology | BIOL 3380, 3395, 3402 (Summer Only), 3413, 3485, 4340, 4350, 4445, 4375 (Spring Only), or 4378 (Spring Only) |
| BIOL 3353 – Ecology and Evolution | BIOL 3380, 3395, 3402 (Summer Only), 3413, 3485, 4340, 4350, 4445, 4375 (Spring Only), or 4378 (Spring Only) |
| Advanced Elective | BIOL 4398 – Current Topics in the Life Sciences |
| Advanced Elective | ENGL 3309 – Technical Writing and Document Design |
| Total Semester Hours: 13 | Total Semester Hours: 12 |

^TThis 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.

^C You may take a different course to meet this requirement. A specific list is available from your advisor.

^C 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.

^T Degree availability varies by campus; consult 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