



**AS Biology Field of Study to
Bachelor in Science in Biomedical Science –
Pre-Pharmacy Concentration^T
Guided Pathway**
Effective beginning with the 2020-2021 catalog



First Year - Collin College

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

FIRST SEMESTER	SECOND SEMESTER
ENGL 1301 Composition I	ENGL 1302 Composition II (or ENG 2311)
MATH 2412 Pre-Calculus Math	BIOL 1407 Biology for Science Majors II
Speech (see list below) – 3 hours	CHEM 1411 General Chemistry I
History (see list below) – 3 hours	History (see list below) – 3 hours
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
GOVT 2305 Federal Government	GOVT 2306 Texas Government
PHYS 1401 College Physics I	Creative Arts (see list below) – 3 hours
Social/Behavioral Science (see list below) – 3 hours (TSU requires ECON 2301 - Principles of Macroeconomics)	CHEM 2423 Organic Chemistry
CHEM 1412 General Chemistry II	Elective (see below) (TSU requires MATH 2413 – Calculus I)
Lang, Phil, & Culture (see list below) – 3 hours (TSU requires PHIL 1301 – Introduction to Philosophy)	
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	
PHYS 1402 – College Physics II (PHYS 1302+1102) or PHYS 2426 – University Physics II (PHYS 2326+2126)	*First Year Seminar Elective (Learning Frameworks)
CHEM 2425 - Organic Chemistry II (CHEM 2325+1125)	

Total Semester Hours: 9-11

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: 12-14

TOTAL: 122-126

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.

† This course counts for the Core Curriculum at any public college or university in Texas.

‡ 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.

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*