



**AS Biology Field of Study to
Bachelor in Science in Biology –
Aquatic Ecology 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 or higher	• 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	CHEM 2423 Organic Chemistry
CHEM 1412 General Chemistry II	Elective (see below) (TSU requires PHYS 1402 – College Physics II (PHYS 1302+1102))
• 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

GEOL 1403 – Physical Geology	• First Year Seminar Elective (Learning Frameworks)
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Total Semester Hours: 5-7

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 4462 – Ichthyology
MATH 3450 – Principles of Bio-Statistics	BIOL 3449 – Invertebrate Zoology
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 4441 – Limnology	EASC 3350 – Environmental Science
BIOL 3340 – Introduction to Marine Biology	BIOL 4398 – Current Topics in the Life Sciences
EASC 3340 – Oceanography	BIOL 3430 – Phycology
BIOL 4401 – Ecology	

Total Semester Hours: 14

Total Semester Hours: 10

TOTAL: 120

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 Biological Sciences department at 254-968-9159.*