



## AS – Biology to BS – Biology Biotechnology Concentration 2021-2022 Transfer Pathway



| AS Degree Requirements             |                                    |                               |     |                        |           |   |           |
|------------------------------------|------------------------------------|-------------------------------|-----|------------------------|-----------|---|-----------|
| McLennan Community College         |                                    |                               |     |                        |           |   |           |
| MCLENNAN                           | TAMUCT                             | Course Name                   | SCH | MCLENNAN               | TAMUCT    | Course Name                                   | SCH       |
| PSYC 1100, 1300 or EDUC 1100, 1300 | PSYC 1100, 1300 or EDUC 1100, 1300 | Learning Framework            | 1   | CHEM 2423 <sup>4</sup> | CHEM 2423 | Organic Chemistry I                           | 4         |
| BIOL 1406 <sup>3</sup>             | CORE 030                           | Biology for Science Majors I  | 4   | GOVT 2305              | CORE 070  | Federal Government                            | 3         |
| CHEM 1411 <sup>4</sup>             | CORE 090                           | General Chemistry I           | 4   | HIST 1301              | CORE 060  | United States History I                       | 3         |
| MATH 2413                          | CORE 020                           | Calculus I                    | 4   | PHYS 1401 <sup>4</sup> | PHYS 1401 | College Physics I                             | 4         |
| ENGL 1301                          | CORE 010                           | Composition I                 | 3   | CORE 040               | CORE 040  | Language, Philosophy & Culture Core Selection | 3         |
| BIOL 1407 <sup>4</sup>             | CORE 030                           | Biology for Science Majors II | 4   | GOVT 2306              | CORE 070  | Texas Government                              | 3         |
| CHEM 1412 <sup>4</sup>             | CORE 090                           | General Chemistry II          | 4   | CORE 080               | CORE 080  | Social/Behavioral Science Core Selection      | 3         |
| CORE 010                           | CORE 010                           | Communications Core Selection | 3   | HIST 1302              | CORE 060  | United States History II                      | 3         |
| CORE 050                           | CORE 050                           | Creative Arts Core Selection  | 3   | CHEM 2425 <sup>4</sup> | CHEM 2425 | Organic Chemistry II                          | 4         |
| <b>Subtotal</b>                    |                                    |                               |     |                        |           |   | <b>60</b> |

| Additional Lower-Level or Upper-Level Degree Requirements          |                                      |                                 |          |
|--|--------------------------------------|---------------------------------|----------|
| McLennan Community College or Texas A&M University – Central Texas |                                      |                                 |          |
| McLennan Community College   | Texas A&M University - Central Texas | Course Name                     | SCH      |
| BIOL 2421 <sup>1,4</sup>   | BIOL 2421                            | Microbiology for Science Majors | 4        |
| Any Level Elective <sup>1,2,3</sup>                                | Any Level Elective                   | Any Level Elective              | 4        |
| <b>Subtotal</b>  |                                      |                                 | <b>8</b> |

| Upper-Level Degree Requirements      |                              |     |                                      |                             |            |
|--------------------------------------|------------------------------|-----|--------------------------------------|-----------------------------|------------|
| Texas A&M University - Central Texas |                              |     |                                      |                             |            |
| Texas A&M University - Central Texas | Course Name                  | SCH | Texas A&M University - Central Texas | Course Name                 | SCH        |
| BIOL 3452 <sup>4</sup>               | Principles of Genetics       | 4   | BIOL 4471 <sup>4</sup>               | Molecular Biology           | 4          |
| CHEM 4430 <sup>4</sup>               | Biochemistry I               | 4   | BIOL 4475 <sup>4</sup>               | Proteomics                  | 4          |
| CHEM 3415 <sup>4</sup>               | Analytical Chemistry         | 4   | BIOL 4380 <sup>4</sup>               | Evolution                   | 3          |
| MATH 3350 <sup>4</sup>               | Principles of Bio-Statistics | 3   | BIOL 4451 <sup>4</sup>               | Bioinformatics              | 4          |
| BIOL 4470 <sup>4</sup>               | Cell Biology                 | 4   | BIOL 4395 <sup>4</sup>               | Biology Capstone            | 3          |
| CHEM 4415 <sup>4</sup>               | Instrumental Analysis        | 4   | Elective – Faculty Approved          | Elective – Faculty Approved | 4          |
| BIOL 3380 <sup>4</sup>               | Research Methods             | 3   | Elective – Faculty Approved          | Elective – Faculty Approved | 4          |
| <b>Subtotal</b>                      |                              |     |                                      |                             | <b>52</b>  |
| <b>Total</b>                         |                              |     |                                      |                             | <b>120</b> |

### Notes/Comments

The following Pathway Plan is suggested for full-time students. Part-time student will need more time to complete this pathway. For assistance with pathway planning, students should schedule an appointment with an academic advisor. This guide is for planning and visualization purposes only.

1. Not all Degree Requirement courses are completed with the AS. Student will need to complete these remaining lower-level courses at the community college. Please consult a TAMUCT financial aid counselor regarding the consortium agreement process.
2. Any-level electives may be taken at either at Texas A&M University-Central Texas or another institution. Please consult an academic advisor prior to selecting any-level electives.
3. Lower-Level Electives, Any Level Electives, Component Area Options or Degree Requirements (DEG REQ) may consist of the FOS courses: BIOL 1406, BIOL 1407, CHEM 1411, CHEM 1412, CHEM 2423, PHYS 1401 or (the 3-credit hour course plus the 1 credit hour lab).
4. Courses must be completed with a "C" or better.