



# Texarkana College

## Redwater High School Early Enrollment Pathway Plan

### Associate of Science Degree

Major: Biology

Student Name \_\_\_\_\_ TC ID# \_\_\_\_\_

Academic Coach for Dual Credit (AC/DC) \_\_\_\_\_

TSIA2 Eng \_\_\_\_\_ TSIA2 Math \_\_\_\_\_ ACT \_\_\_\_\_

Advising Dates: \_\_\_\_\_

| TC Course                                                          | Course Title                                    | Credit Hours | Grade Level Completed | Grade Level Course is Available | Comments/Planning          |
|--------------------------------------------------------------------|-------------------------------------------------|--------------|-----------------------|---------------------------------|----------------------------|
| CORE COURSES- 42 Total Hours                                       |                                                 |              |                       |                                 |                            |
| ENGL 1301                                                          | Composition I <sup>1</sup>                      | 3            |                       | 11, 12 or *EA                   |                            |
| ENGL 1302                                                          | Composition II <sup>1</sup>                     | 3            |                       | 11, 12 or *EA                   |                            |
| ENGL 2311                                                          | Technical & Business Writing <sup>1</sup>       |              |                       |                                 |                            |
| MATH 1314                                                          | College Algebra (Calculus Prep) <sup>2</sup>    | 3            |                       | 11, 12 or *EA                   | Grade level pending course |
| MATH 1442                                                          | Elementary Statistical Methods <sup>2</sup>     |              |                       |                                 |                            |
| MATH 2413                                                          | Calculus I <sup>2</sup>                         |              |                       |                                 |                            |
| HIST 1301                                                          | United States History I <sup>6</sup>            | 3            |                       | 11 or *EA                       |                            |
| HIST 1302                                                          | United States History II <sup>6</sup>           | 3            |                       | 11 or *EA                       |                            |
| ARTS 1301                                                          | Art Appreciation <sup>5</sup>                   | 3            |                       | 11, 12 or *EA                   |                            |
| DRAM 1310                                                          | Theatre Appreciation <sup>5</sup>               |              |                       |                                 |                            |
| DRAM 2366                                                          | Development of the Motion Picture <sup>5</sup>  |              |                       |                                 |                            |
| MUSI 1306                                                          | Music Appreciation <sup>5</sup>                 |              |                       |                                 |                            |
| PSYC 2301/2308                                                     | General/Child Psych <sup>8</sup>                | 3            |                       | *EA                             |                            |
| PSYC 2314                                                          | Lifespan Growth & Development <sup>8</sup>      |              |                       |                                 |                            |
| SOCI 1301                                                          | Introductory Sociology <sup>8</sup>             |              |                       |                                 |                            |
| SPCH 1315                                                          | Public Speaking <sup>9</sup>                    | 3            |                       | 11, 12 or *EA                   |                            |
| ENGL 2327/2328                                                     | American Literature I/II <sup>4</sup>           | 3            |                       | *EA                             |                            |
| ENGL 2332/2333                                                     | World Literature I/II <sup>4</sup>              |              |                       |                                 |                            |
| HIST 2321/2322                                                     | World Civilizations I/II <sup>4</sup>           |              |                       |                                 |                            |
| PHIL 2306                                                          | Introduction to Ethics <sup>4</sup>             |              |                       |                                 |                            |
| GOVT 2305                                                          | Federal Government <sup>7</sup>                 | 3            |                       | *EA                             |                            |
| GOVT 2306                                                          | Texas Government <sup>7</sup>                   | 3            |                       | *EA                             |                            |
| BIOL 1306                                                          | Biology for Science Majors I <sup>3</sup>       | 3            |                       | *EA                             |                            |
| BIOL 1307                                                          | Biology for Science Majors II <sup>3</sup>      | 3            |                       | *EA                             |                            |
| EDUC/PSYC 1300                                                     | Learning Frameworks <sup>9</sup>                | 3            |                       | *EA                             |                            |
| TOTAL CORE HOURS                                                   |                                                 | 42           |                       |                                 |                            |
| ADDITIONAL COURSES FOR DEGREE – 18 Total Hours {continued on back} |                                                 |              |                       |                                 |                            |
| BIOL 1106                                                          | Biology for Science Majors I Lab <sup>12</sup>  | 1            |                       | *EA                             |                            |
| BIOL 1107                                                          | Biology for Science Majors II Lab <sup>12</sup> | 1            |                       | *EA                             |                            |
| CHEM 1311                                                          | General Chemistry I <sup>12</sup>               | 3            |                       | *EA                             |                            |
| CHEM 1111                                                          | General Chemistry I Lab <sup>12</sup>           | 1            |                       | *EA                             |                            |
| CHEM 1312                                                          | General Chemistry II <sup>12</sup>              | 3            |                       | *EA                             |                            |
| CHEM 1112                                                          | General Chemistry II Lab <sup>12</sup>          | 1            |                       | *EA                             |                            |

|                             |                                                     |                                                                                                                       |           |  |     |              |
|-----------------------------|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-----------|--|-----|--------------|
| Pick One                    | *CHEM 2323/2123<br>PHYS 1301/1101<br>PHYS 2325/2125 | Organic Chemistry I Lecture/Lab <sup>12</sup><br>College Physics I Lecture/Lab<br>University Physics I Lecture/Lab    | 4         |  | *EA | *Recommended |
| Pick One                    | *CHEM 2325/2125<br>PHYS 1302/1102<br>PHYS 2326/2126 | Organic Chemistry II Lecture/Lab <sup>12</sup><br>College Physics II Lecture/Lab<br>University Physics II Lecture/Lab | 4         |  | *EA | *Recommended |
| <b>TOTAL NON-CORE HOURS</b> |                                                     |                                                                                                                       | <b>18</b> |  |     |              |
| <b>Total Credit Hours</b>   |                                                     |                                                                                                                       | <b>60</b> |  |     |              |

Many courses have pre-requisite or co-requisites and/or TSI requirements that must be met. Check course descriptions in the TC Catalog. Students planning to transfer to a four-year institution should check degree requirements of the college or university to which they plan to transfer.

\*Course offered through TC's Early Admission program.

#### Explanation for Superscripts

|           |                                                                                                                                                                                                                                                                                                                                                                                                              |           |                                                                                                                                                                                                                                                             |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1</b>  | <b>Communication Block (010):</b><br>Complete each of the following: ENGL 1301 <b>and</b> ENGL 1302 or 2311                                                                                                                                                                                                                                                                                                  | <b>2</b>  | <b>Mathematics Block (020):</b><br>Complete one of the following: MATH 1314, 1316, 1324, 1325, 1332, 1350, 1442, 2412, or 2413                                                                                                                              |
| <b>3</b>  | <b>Life &amp; Physical Sciences Block (030):</b><br>Complete two of the following: BIOL 1306, 1307, 1308, 1309, 1311, 1313, 1322, 2301, 2302, 2306, 2320, 2321; CHEM 1305, 1307, 1311, 1312, 1419; GEOL 1303; PHYS 1301, 1303, 1304, 1315, 2325                                                                                                                                                              | <b>4</b>  | <b>Language, Philosophy, &amp; Culture Block (040):</b><br>Complete one of the following: ENGL 2322, 2323, 2327, 2328, 2332, 2333, 2341; HIST 2321, 2322; PHIL 2306                                                                                         |
| <b>5</b>  | <b>Creative Arts Block (050):</b><br>Complete one of the following: ARTS 1301, 1310; DRAM 1310, 2366; MUSI 1306                                                                                                                                                                                                                                                                                              | <b>6</b>  | <b>American History Block (060):</b><br>Complete each of the following: HIST 1301 <b>and</b> 1302                                                                                                                                                           |
| <b>7</b>  | <b>Government/Political Science Block (070):</b><br>Complete each of the following: GOVT 2305 <b>and</b> 2306                                                                                                                                                                                                                                                                                                | <b>8</b>  | <b>Social &amp; Behavioral Sciences Block (080):</b> Complete one of the following: COMM 1307; ECON 2301, 2302; GEOG 1303; PSYC 2301, 2308, 2314; SOCI 1301                                                                                                 |
| <b>9</b>  | <b>Component Area Option Block (090): 9A: Choose one from the following:</b><br>SPCH 1315; SPCH 1318; SPCH 1321<br><b>OR</b> any courses in Component Areas (010), (020), (030), (040), (050), & (080) that are not used to fulfill another core requirement except MATH 2413, which is listed below.<br><br><b>AND</b><br><b>9B: Choose one from the following:</b><br>BCIS 1305; MATH 2413; PSYC/EDUC 1300 | <b>10</b> | <b>Lab Science Course</b><br>Choose a lab science course that corresponds to the Life & Physical Sciences courses you take: BIOL 1106, 1107, 1108, 1109, 1111, 1113, 2101, 2102, 2120, 2121; CHEM 1105, 1107, 1111, 1112; PHYS 1101, 1103, 1104, 1115, 2125 |
| <b>11</b> | <b>Elective Option:</b><br>Choose any college level course                                                                                                                                                                                                                                                                                                                                                   | <b>12</b> | <b>Degree Requirement</b><br>This course is required for this particular degree                                                                                                                                                                             |

#### LEARNING OUTCOMES/MARKETABLE SKILLS

Critical Thinking | Teamwork | Communication | Empirical & Quantitative Reasoning | Technical Proficiency | Numeracy | Organization | Self-Discipline | Time Management | Leadership

#### EDUCATIONAL OPPORTUNITIES

B.S. Biology | B.S. Science Education | B.S. Environmental Chemistry | B.S. Medical Technology | B.S. Forensic Science

#### CAREER OPPORTUNITIES

Microbiologist | Physician's Assistant | Medical Doctor | Dentist | Pharmacist | Nature Conservation Officer | Zoologist

#### HIGH SCHOOL ENDORSEMENTS

STEM | Public Health | Business & Industry | Multi-Disciplinary

#### LINKS TO COLLEGES & PROFESSIONAL ORGANIZATIONS:

Texas A&M Texarkana Department of Biology: <http://www.tamut.edu/Academics/Colleges-and-Departments/STEM/Biology/index.html>

Stephen F. Austin State University Department of Biology: <http://www.sfasu.edu/biology/>

University of North Texas Department of Biology: <https://biology.unt.edu/>

Southern Arkansas University Department of Biological Sciences: <https://web.saumag.edu/academics/program/biological-sciences/>

Henderson State University Department of Biology: <http://www.hsu.edu/Biology/index.html>

American Institute of Biological Sciences: <https://www.aibs.org/home/index.html>