

# COLLEGE OF NATURAL SCIENCES & MATHEMATICS

## Bachelor of Arts, Biochemical & Biophysical Sciences

### Four-Year Academic Map 2018-2019

| YEAR 1 | Semester 1 Fall |                                    |   | Semester 2 Spring |                                    |   | Total |    |
|--------|-----------------|------------------------------------|---|-------------------|------------------------------------|---|-------|----|
|        | ENGL 1303       | First Year Writing I               | 3 | ENGL 1304         | First Year Writing II              | 3 |       |    |
|        | CHEM 1331       | Fundamentals of Chemistry I        | 3 | CHEM 1332         | Fundamentals of Chemistry II       | 3 |       |    |
|        | CHEM 1111       | Fundamentals of Chemistry I Lab    | 1 | CHEM 1112         | Fundamentals of Chemistry II Lab   | 1 |       |    |
|        | MATH 1431       | Calculus I                         | 4 | MATH 1432         | Calculus II                        | 4 |       |    |
|        | BIOL 1361       | Introduction to Biological Science | 3 | BIOL 1362         | Introduction to Biological Science | 3 |       |    |
|        | BIOL 1161       | Intro to Biological Science Lab    | 1 | BIOL 1162         | Intro to Biological Science Lab    | 1 |       |    |
|        | Semester Hours  |                                    |   | 15                | Semester Hours                     |   |       | 15 |

| YEAR 2         | Semester 1 |                                     |       | Semester 2     |                                  |   | Total |       |
|----------------|------------|-------------------------------------|-------|----------------|----------------------------------|---|-------|-------|
|                |            | Foreign Language (2000-level)       | 3     |                | Foreign Language (2000-level)    | 3 |       |       |
|                | CHEM 3331  | Fundamentals of Organic Chemistry I | 3     | CHEM 3332      | Fundamentals of Organic Chem. II | 3 |       |       |
|                | CHEM 3221  | Funds of Organic Chem. I Lab        | 2     | CHEM 3222      | Funds of Organic Chem. II Lab    | 2 |       |       |
|                | MATH 2433  | Calculus III <b>OR</b>              | 3-4   | BCHS 3304      | General Biochemistry I           | 3 |       |       |
|                | MATH 3338  | Probability <b>OR</b>               |       | BCHS 3201      | Biochemistry I Laboratory        | 2 |       |       |
|                | MATH 3339  | Statistics for the Sciences         |       | CORE           | Creative Arts                    | 3 |       |       |
|                | BIOL 3301  | Genetics                            | 3     |                |                                  |   |       |       |
| Semester Hours |            |                                     | 14-15 | Semester Hours |                                  |   | 16    | 30-31 |

| YEAR 3 | Semester 1     |                                     |   | Semester 2 |   |   | Total |    |
|--------|----------------|-------------------------------------|---|------------|---|---|-------|----|
|        | PHYS 1301      | Introductory General Physics I      | 3 | PHYS 1102  | General Physics Laboratory II                         | 1 |       |    |
|        | PHYS 1101      | General Physics Laboratory I        | 1 | PHYS 1302  | Intro General Physics II                              | 3 |       |    |
|        | BCHS 3305      | General Biochemistry II             | 3 | POLS 1337  | US Govt: Congress, Prest, & Courts                    | 3 |       |    |
|        | POLS 1336      | US & Texas Constitutions & Politics | 3 | HIST 1378  | The United States Since 1877                          | 3 |       |    |
|        | HIST 1377      | The United States to 1877           | 3 | Elective   | Approved Advanced Biochemical & Biophysical Sci. Elec | 3 |       |    |
|        | CORE           | Social & Behavioral Sciences        | 3 |            |   |   |       |    |
|        | Semester Hours |                                     |   | 16         | Semester Hours  |   |       | 13 |

| YEAR 4 | Semester 1     |  |   | Semester 2 |                                |   | Total |    |
|--------|----------------|--|---|------------|--------------------------------|---|-------|----|
|        | CHEM 4373      | Survey of Physical Chemistry <b>OR</b>                           | 3 | BCHS 4304  | Biophysics                     | 3 |       |    |
|        | CHEM 4370      | Physical Chemistry I   |   | BCHS 4311  | Biochemistry Laboratory II     | 3 |       |    |
|        | BCHS 4306      | Nucleic Acids  | 3 | Elective   | NSM Capstone or Electives      | 4 |       |    |
|        | Elective       | NSM Capstone or Elective   | 6 | BCHS 4307  | Proteins                       | 3 |       |    |
|        | Elective       | Approved Advanced Biochemical and Biophysical Sciences Electives | 3 | CORE       | Language, Philosophy & Culture | 3 |       |    |
|        | Semester Hours |  |   | 15         | Semester Hours                 |   |       | 15 |
|        |                |  |   |            |                                |   | 120   |    |

Students should meet with their academic advisor to formulate their own plan.