

COLLEGE OF NATURAL SCIENCES & MATHEMATICS

Bachelor of Science, Biochemical & Biophysical Sciences

Four-Year Academic Map 2020-2021

| 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 | | | | |
|----------------|------------|---------------------------------|-------|----------------|---------------------------------|---|----|-------|
| | CORE | Creative Arts | 3 | CHEM 3332 | Fundamentals of Organic Chem II | 3 | | |
| | CHEM 3331 | Fundamen of Organic Chemistry I | 3 | CHEM 3222 | Funds of Organic Chem. II Lab | 2 | | |
| | CHEM 3221 | Fundamen of Organic Chem. I Lab | 2 | BCHS 3304 | General Biochemistry I | 3 | | |
| | MATH 2433 | Calculus III OR | 3-4 | BCHS 3201 | Biochemistry I Laboratory | 2 | | |
| | MATH 3338 | Probability OR | | PHYS 1301 | Introductory General Physics I | 3 | | |
| | MATH 3339 | Statistics for the Sciences | | PHYS 1101 | General Physics Laboratory I | 1 | | |
| | BIOL 3301 | Genetics | 3 | | | | | |
| Semester Hours | | | 14-15 | Semester Hours | | | 14 | 28-29 |

| YEAR 3 | Semester 1 | | | Semester 2 | | | | |
|--------|----------------|-------------------------------------|---|------------|---|---|--|----|
| | PHYS 1302 | Introductory General Physics II | 3 | Elective | NSM Capstone or Electives | 3 | | |
| | PHYS 1102 | General Physics Laboratory II | 1 | POLS 1337 | US Govt: Congress, Pres, & Courts | 3 | | |
| | BCHS 3305 | General Biochemistry II | 3 | HIST 1378 | The United States Since 1877 | 3 | | |
| | POLS 1336 | US & Texas Constitutions & Politics | 3 | Elective | Approved Advanced Biochemical and Biophysical Science Electives | 6 | | |
| | HIST 1377 | The United States to 1877 | 3 | | | | | |
| | CORE | Social & Behavioral Sciences | 3 | | | | | |
| | Semester Hours | | | 16 | Semester Hours | | | 15 |

| YEAR 4 | Semester 1 | | | Semester 2 | | | | |
|--------|----------------|---|-----|------------|----------------------------|---|-----|----|
| | CHEM 4373 | Survey of Physical Chemistry OR | 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 | 6 | | |
| | Elective | Approved Advanced Biochemical and Biophysical Sciences Elective | 3 | BCHS 4307 | Proteins | 3 | | |
| | Elective | NSM Capstone or Electives | 3-4 | | | | | |
| | CORE | Language Philosophy & Culture | 3 | | | | | |
| | Semester Hours | | | 15-16 | Semester Hours | | | 15 |
| | | | | | | | 120 | |

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