

COLLEGE OF NATURAL SCIENCES & MATHEMATICS

Bachelor of Science, Chemistry

Four-Year Academic Map 2017-2018

| 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 1 | 4 | MATH 1432 | Calculus II | 4 | |
| | HIST 1377 | The United States to 1877 | 3 | HIST 1377 | The United States Since 1877 | 3 | |
| | CORE | Social & Behavioral Sciences | 3 | | | | |
| | Semester Hours | | | 17 | Semester Hours | | 14 |

| YEAR 2 | Semester 1 | | | Semester 2 | | | Total |
|--------|----------------|-------------------------------------|---|------------|---------------------------------|---|-------|
| | CHEM 3331 | Fundamentals of Organic Chemistry I | 3 | CHEM 2233 | Inorganic Chemistry | 2 | |
| | CHEM 3221 | Fundamentals of Organic Chem I Lab | 2 | CHEM 2133 | Inorganic Chemistry Laboratory | 1 | |
| | PHYS 1321 | University Physics I | 2 | CHEM 3332 | Fundamentals of Organic Chem II | 3 | |
| | PHYS 1121 | University Physics Lab I | 1 | CHEM 3222 | Funds of Organic Chem II Lab | 2 | |
| | MATH 2433 | Calculus III | 4 | PHYS 1322 | University Physics II | 3 | |
| | CORE | Writing in the Discipline | 3 | MATH 3321 | Engineering Mathematics | 3 | |
| | Semester Hours | | | 16 | Semester Hours | | 14 |

| YEAR 3 | Semester 1 | | | Semester 2 | | | Total |
|----------------|------------|---------------------------------------|----|----------------|-------------------------------------|----|-------|
| | CHEM 4372 | Physical Chemistry II | 3 | CHEM 4370 | Physical Chemistry I | 3 | |
| | CHEM 4272 | Physical Chemistry II Lab | 2 | CHEM 4270 | Physical Chemistry I Lab | 2 | |
| | POLS 1336 | U.S. & Texas Constitutions & Politics | 3 | POLS 1337 | U.S. Govt: Congress, Pres, & Courts | 3 | |
| | | | | PHYS 1122 | Physics II Lab | 1 | |
| | CHEM 3369 | Analytical Chemistry | 3 | | Natural Sciences Approved Course | 3 | |
| | CHEM 3119 | Analytical Chemistry Lab | 1 | | NSM Capstone or Elective | 3 | |
| | CORE | Creative Arts | 3 | | | | |
| Semester Hours | | | 15 | Semester Hours | | 15 | 30 |

| YEAR 4 | Semester 1 | | | Semester 2 | | | Total |
|----------------|---------------|--------------------------------------|----|----------------|----------------------------------|----|-------|
| | CHEM 4369 | Instrumental Methods of Analysis | 3 | | NSM Capstone or Elective | 5 | |
| | CHEM 4229 | Instrumental Methods of Analysis Lab | 2 | | | | |
| | ADV CHEM ELEC | Advanced Approved Chemistry Elective | 3 | CHEM 4336 | Fundamental Biochemistry | 3 | |
| | | | | | Natural Sciences Approved Course | 3 | |
| | CHEM 4365 | Inorganic Chemistry II | 3 | | | | |
| | CHEM 4115 | Inorganic Chemistry Laboratory | 1 | | | | |
| | CORE | Language, Philosophy and Culture | 3 | | NSM Capstone or Elective | 3 | |
| Semester Hours | | | 15 | Semester Hours | | 14 | 29 |
| | | | | | | | 120 |

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