

# ACCELERATED BACHELOR OF SCIENCE IN CHEMISTRY/ MASTER OF SCIENCE IN CHEMISTRY

## Plan of Study

| First Year                             |                                                                                          |                                 |           | Third Year                    |                                                                                             |           |   |
|----------------------------------------|------------------------------------------------------------------------------------------|---------------------------------|-----------|-------------------------------|---------------------------------------------------------------------------------------------|-----------|---|
| Fall                                   |                                                                                          |                                 |           | Fall                          |                                                                                             |           |   |
| CHEM 1001                              | Horizons of Chemistry and Biochemistry I: Career Possibilities                           | TCCN                            | SCHs      | CHEM 3413                     | Physical Chemistry I & CHEM 3411 and Physical Chemistry Laboratory I                        | TCCN      | 4 |
| CHEM 1213                              | Principles of Chemistry I & CHEM 1211 and Principles of Chemistry Laboratory I           |                                 | 4         | CHEM 3633                     | Biochemistry I & CHEM 3632 and Biochemistry I Laboratory                                    |           | 5 |
| MATH 2014                              | Calculus I                                                                               | MATH 2413                       | 4         | Social and Behavioral Core    |                                                                                             |           |   |
| ENG 1013                               | Composition I                                                                            | ENGL 1301                       | 3         | CHEM 4313                     | Instrumental Analysis & CHEM 4311 and Instrumental Analysis Laboratory (OR: CHEM 4513/4511) |           | 4 |
| UNIV 1231                              | Learning Frameworks: the First-Year Seminar                                              | EDUC 1100, EDUC 1200, EDUC 1300 | 1         | <b>SCHs</b>                   |                                                                                             |           |   |
| Wellness/Mathematics CAO Core          |                                                                                          |                                 | 2         | <b>Spring</b>                 |                                                                                             |           |   |
| <b>SCHs</b>                            |                                                                                          |                                 | <b>15</b> | CHEM 3423                     | Physical Chemistry II & CHEM 3421 and Physical Chemistry Laboratory II                      | TCCN      | 4 |
| Spring                                 |                                                                                          |                                 |           | CHEM 3643                     | Biochemistry II                                                                             |           | 3 |
| CHEM 1101                              | Horizons of Chemistry and Biochemistry II: Current Applications                          | TCCN                            | 1         | CHEM 4983                     | Undergraduate Research                                                                      |           | 3 |
| CHEM 1223                              | Principles of Chemistry II & CHEM 1221 and Principles of Chemistry Laboratory II         |                                 | 4         | Elective (Global Perspective) |                                                                                             |           |   |
| MATH 2024                              | Calculus II                                                                              | MATH 2414                       | 4         | <b>SCHs</b>                   |                                                                                             |           |   |
| ENG 1023                               | Composition II                                                                           | ENGL 1302                       | 3         | <b>13</b>                     |                                                                                             |           |   |
| Multicultural Women's Studies CAO Core |                                                                                          |                                 | 3         | Fourth Year                   |                                                                                             |           |   |
| <b>SCHs</b>                            |                                                                                          |                                 | <b>15</b> | Fall                          |                                                                                             |           |   |
| Second Year                            |                                                                                          |                                 |           | CHEM 4983                     | Undergraduate Research                                                                      | TCCN      | 3 |
| Fall                                   |                                                                                          |                                 |           | Creative Arts Core            |                                                                                             |           |   |
| CHEM 2213                              | Organic Chemistry I & CHEM 2211 and Organic Chemistry Laboratory I                       | CHEM 2323 & CHEM 2123           | 4         | HIST 1013                     | History of the United States, 1492-1865                                                     | HIST 1301 | 3 |
| PHYS 2153                              | General Physics I & PHYS 2151 and General Physics Laboratory I                           | PHYS 2325 & PHYS 2125           | 4         | CHEM 5523                     | Advanced Inorganic Chemistry & CHEM 4511 and Inorganic Chemistry Laboratory                 |           | 4 |
| POLS 2013                              | U.S. National Government Language, Philosophy, & Culture                                 | GOVT 2305                       | 3         | CHEM 5323                     | Advanced Analytical Chemistry & CHEM 4311 and Instrumental Analysis Laboratory              |           | 4 |
| <b>SCHs</b>                            |                                                                                          |                                 | <b>14</b> | <b>SCHs</b>                   |                                                                                             |           |   |
| Spring                                 |                                                                                          |                                 |           | <b>17</b>                     |                                                                                             |           |   |
| CHEM 3223                              | Organic Chemistry II & CHEM 3221 and Organic Chemistry Laboratory II                     | TCCN                            | 4         | Spring                        |                                                                                             |           |   |
| PHYS 2163                              | General Physics II & PHYS 2161 and General Physics Laboratory II                         | PHYS 2326 & PHYS 2126           | 4         | CHEM 4001                     | Research Presentations in Chemistry and Biochemistry                                        | TCCN      | 1 |
| POLS 2023                              | Texas Government                                                                         | GOVT 2306                       | 3         | CHEM 3713                     | Environmental Chemistry I & CHEM 3711 and Environmental Chemistry Laboratory I              |           | 4 |
| CHEM 3333                              | Quantitative Chemical Analysis & CHEM 3331 and Quantitative Chemical Analysis Laboratory |                                 | 4         | HIST 1023                     | History of the United States, 1865 to the Present                                           | HIST 1302 | 3 |
| <b>SCHs</b>                            |                                                                                          |                                 | <b>15</b> | Elective                      |                                                                                             |           |   |
| Total SCHs:                            |                                                                                          |                                 |           | Elective                      |                                                                                             |           |   |
|                                        |                                                                                          |                                 |           | <b>SCHs</b>                   |                                                                                             |           |   |
|                                        |                                                                                          |                                 |           | <b>15</b>                     |                                                                                             |           |   |
|                                        |                                                                                          |                                 |           | Total SCHs:                   |                                                                                             |           |   |
|                                        |                                                                                          |                                 |           | <b>120</b>                    |                                                                                             |           |   |