



**NORTHEASTERN**  
**STATE UNIVERSITY**

*College of Science & Health Professions*

**2020 – 2021 Chemistry – Professional**

**First Year – Freshman**

| <b>Fall Semester</b>                 | <b>Spring Semester</b>                 |
|--------------------------------------|--|
| ENGL 1113* Freshman Comp I           | ENGL 1213* Freshman Comp II            |
| MATH 1714* Precalculus               | CHEM 1123* General Chemistry I         |
| UNIV 1003* University Strategies     | CHEM 1131* General Chemistry I Lab     |
| BIOL 1013* Introductory Biology I    | Communications, 3 hours*               |
| BIOL 1011 Introductory Biology I Lab | POLS 1113* American Federal Government |
|                                      | Life Skills, 3 hours*                  |
| <b>Total Hours 14</b>                | <b>Total Hours 16</b>                  |

**Second Year – Sophomore**

| <b>Fall Semester</b>                | <b>Spring Semester</b>            |
|-------------------------------------|-----------------------------------|
| CHEM 1223 General Chemistry II      | CHEM 3123 Organic Chemistry I     |
| CHEM 1231 General Chemistry II Lab  | CHEM 3131 Organic Chemistry I Lab |
| MATH 3513 Statistical Methods       | MATH 2624 Calculus II             |
| MATH 2614 Calculus I                | Humanities elective, 3 hours*     |
| Humanities elective, 3 hours*       | Social Sciences, 3 hours*         |
| HIST 1483 or 1493* American History | Life Skills Elective, 3 hours*    |
| <b>Total Hours 17</b>               | <b>Total Hours 17</b>             |

**Third Year – Junior**

| <b>Fall Semester</b>                                      | <b>Spring Semester</b>                            |
|---|---|
| CHEM 3315 Quantitative Analysis                           | CHEM 4714 Instrumental Analysis                   |
| Global Perspectives Elective, 3 hours*                    | PHYS 2115 Engineering Physics I                   |
| CHEM 3223 Organic Chemistry II                            | CHEM 4221 Biochem Lab or CHEM 3421 Inorg Chem Lab |
| CHEM 3231 Organic Chemistry II Lab                        | CHEM 4214 Biochemistry                            |
| CHEM 3413 Inorganic Chemistry (odd fall) or Free Elective | Free elective, 3 hours                            |
| <b>Total Hours 15</b>                                     | <b>Total Hours 17</b>                             |

**Fourth Year – Senior**

| <b>Fall Semester</b>                                      | <b>Spring Semester</b>                     |
|---|--|
| CHEM 4524 Physical Chemistry I                            | CHEM 4624 Physical Chemistry II            |
| PHYS 2215 Engineering Physics II                          | Upper Division Chemistry Elective, 3 hours |
| CHEM 4412 Research in Chemistry I                         | CHEM 4911 Chemistry Seminar I              |
| CHEM 3413 Inorganic Chemistry (odd fall) or Free Elective | Free elective, 6 hours                     |
| <b>Total Hours 14</b>                                     | <b>Total Hours 14</b>                      |

**Total Degree Plan Hours 124**

\*General Education Requirement. \*\*See current catalog "General Requirements" for selection.

04/16/2020