

| | Credits | |
|--|---------|---|
| CHEM 1061 Principles of Chemistry I | 4 | CHEM 111 General Chemistry I |
| CHEM 1062 Principles of Chemistry II | 4 | |
| CHEM 2062 Organic Chemistry II | 5 | CHEM 202 Organic Chemistry II |
| MATH 1221 Calculus I | 5 | MATH 113 Calculus I |
| MATH 1222 Calculus II | 5 | MATH 114 Calculus II |
| PHYS 1601 General Physics I | 5 | PHYS 211 Classical Physics I |
| PHYS 1602 General Physics II | 5 | PHYS 212 Classical Physics II |
| | 38 | |
| Goal area 1 - ENGC 1201* | 9 | Meets English |
| Goal area 2 – fulfilled by MnTC | | |
| Goal area 3- completed by pathway | | Meets Natural Sciences |
| Goal area 4 – completed by pathway | | Meets Quantitative Analysis |
| Goal areas 5-10 Completion of the MnTC is recommended to graduate on time* | 13 | Meets general education requirements except for Theology, Philosophy, and Senior Capstone Experience. |
| | 60 | |
| * Recommended for university | | |

| | Credits |
|--|---------|
| CHEM 220 Foundations in Inorganic Chemistry | |
| CHEM 300 Quantitative Analysis | |
| CHEM 320 Instrumental Analysis | |
| CHEM 331 Chemical Thermodynamics and Reaction Dynamics | |
| CHEM 332 Quantum Chemistry and Molecular Spectroscopy | |
| CHEM 440 Biochemistry I | |
| CHEM 481-484 Student Seminar Sequence | |
| CHEM electives (6 credits from a select list) | |

A research requirement that can be satisfied by taking CHEM 491 Research (2 or 4 credits)

| | Credits |
|--|---------|
| CHEM 300 Quantitative Analysis | |
| CHEM 320 Instrumental Analysis | |
| CHEM 481-484 Student Seminar Sequence | |
| | |
| CHEM 331 Chemical Thermodynamics and Reaction Dynamics | |
| CHEM 332 Quantum Chemistry and Molecular Spectroscopy | |
| | |
| CHEM electives (8 credits from a select list) | |