

	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)	