University of Mary			UND					
Chemical Engineering requirements								
ENR 101	3	Introduction to Engineering	CHE 102	2	Introduction to Chemical Engineering			
Must be taken at UND			CHE 103	3	Computer Tools for Chemical Engineers			
Must be taken at UND			CHE 201	3	Chemical Engineering Fundamentals			
Must be taken at UND			CHE 206	3	Unit Operations in Chemical Engineering			
Must be taken at UND			CHE 232	2	Chemical Engineering Laboratory			
Must be taken at UND			CHE 301	4	Introduction to Transport Phenomena			
Must be taken at UND			CHE 303	4	Chemical Engineering Thermodynamics			
Must be taken at UND			CHE 305	3	Separations			
Must be taken at UND			CHE 315	3	Engineering Statistics and Design of Experiments			
Must be taken at UND			CHE 321	3	Chemical Engineering Reactor Design			
Must be taken at UND			CHE 331	2	Chemical Engineering Laboratory II			
Must be taken at UND			CHE 332	2	Chemical Engienering Laboratory III			
Must be taken at UND			CHE 408	3	Process Dynamics and Control			
Must be taken at UND			CHE 411	4	Plant Design I: Process Design and Economics			
Must be taken at UND			CHE 412	5	Plant Design II: Process Project Engineering			
Must be taken at UND			CHE 416	3	Chemical Product Design			
Must be taken at UND			CHE 431	3	Chemical Engineering Laboratory IV			
Advanced Chemical Science Electives (6 credits required)*								
Material Science Elective (3 credits required)*								
Technical Elective (3 credits required)*								
College of Engineering and Mines Requirements								
ENR 206	3	Fundamentals of Electrical Engineering	ENGR 206	3	Fundamentals of Electrical Engineering			
PHI 308	3	Ethics	ENGR 340	3	Professional Integrity in Engineering			
Required courses for CHE within other departments								
CHE 111	4	General Inorganic Chemistry I	CHEM 121/L	3/1	General Chemistry I and lab			
CHE 112	4	General Inorganic Chemistry II	CHEM 122/L	3/1	General Chemistry II and lab			
CHE 217	4	Organic Chemistry I	CHEM 341/L	4/1	Organic Chemistry I and lab			
Must be taken at UND			CHEM 466	4	Fundamentals of Physical and Biophysical Chemistry			
Must be taken at UND			LEAD 101	3	Learning Leadership			
MAT 209	4	Calculus with Analytic Geometry I	MATH 165	3/1	Calculus I			
MAT 210	4	Calculus with Analytic Geometry II	MATH 166	4	Calculus II			
MAT 211	4	Calculus with Analytic Geometry III	MATH 265	4	Calculus III			
MAT 334	3	Differential Equations	MATH 266	3	Intro to Differential Equations			

		Engineering Physics I: Classical			
PHY 251/251L	4	Mechanics and lab	PHYS 251	4	University Physics I
		Engineering Physics II:			
PHY 252/252L	4	Electromagnetism and Optics and lab	PHYS 252	4	University Physics II

All Essential Studies requirements will be waived upon receipt of an official updated transcript verifying a bachelor's degree has been earned. *Students are encouraged to work with their academic advisor to choose technical electives that fit with their individual learning plan.