University of Mary			UND					
Civil Engineering requirements								
Must be taken at UND			CE 101	1	Intro to Civil Engineering			
Must be taken at UND			CE 103	3	Graphical Communication			
EME 306	3	Fluid Mechanics	CE 306	3	Fluid Mechanics			
ECI 313/313L	3	General Surveying and lab	CE 313/313L	3	General Surveying and lab			
ECI 351	4	Structural Mechanics	CE 351	4	Structural Mechanics			
					Civil Engineering Materials and Soil			
ECI 301	2	Civil Engineering Laboratory	CE 411	2	Mechanics Lab			
ECI 412	3	Soil Mechanics	CE 412	3	Soil Mechanics			
Must be taken at UND			CE 412L	1	Soil Mechanics lab			
ECI 414	3	Foundation Engineering	CE 414	3	Foundation Engineering			
ECI 416	3	Transportation Engineering	CE 416	3	Transportation Engineering			
ECI 421	3	Hyrology	CE 421	3	Hydrology			
ECI 423	3	Hydraulic Engineering	CE 423	3	Hydraulic Engineering			
Must be taken at UND			CE 423L	4	Hydraulic Engineering lab			
Must be taken at UND			CE 431	3	Environmental Engineering I			
Must be taken at UND			CE 431L	4	Environmental Engineering I lab			
Must be taken at UND			CE 432	3	Environmental Engineering II			
Must be taken at UND			CE 444	3	Contracts and Specifications			
ECI 451	3	Steel Design	CE 451	3	Steel Design			
ECI 453	3	Reinforced Concrete	CE 453	3	Reinforced Concrete			
Must be taken at UND			CE 482	3	Civil Engineering Design I			
Must be taken at UND			CE 483	3	Civil Engineering Design II			
Program Required Technical Electives (6 credits total required)*								
College of Engineering and Mines Requirements								
ENR 200	2	Computer for Math & Engineering	ENGR 200	2	Computer Applications in Engineering			
ENR 201	3	Statics	ENGR 201	3	Statics			
ENR 202	3	Dynamics	ENGR 202	3	Dynamics			
ENR 203	3	Mechanics of Materials	ENGR 203	3	Mechanics of Materials			
PHI 308	3	Ethics	ENGR 340	3	Professional Integrity in Engineering			
Must be taken at UND			ENGR 460	3	Engineering Economy			
			GEOL 101/L or		Introduction to Geology and lab or Earth			
ECI 203	4	Earth Dynamics and Geophysics	GEOE 203	4/3	Dynamics			

Required courses for CE within other departments							
CHE 111	4	General Inorganic Chemistry I	CHEM 121/L	4	General Chemistry I and lab		
MAT 209	4	Calculus with Analytic Geometry I	MATH 165	4	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		
EEL 318	3	Engineering Data Analysis	MATH 321	3	Applied Statistical Methods		
PHY 251/251L	4	Engineering Physics I: Classical Mechanics and lab	PHYS 251	4	University Physics I		
CHE 112 or PHY		General Inorganic Chemistry II or Engineering Physics II:	CHEM 122/L or		General Chemistry II and lab or		
252/252L	4/4	Electromagnetism and Optics and lab	PHYS 252	4	University Physics II		

Students transferring to UND with a completed 4-year accredited baccalaureate degree will have all Essential Studies requirements waived.

\*Students are encouraged to work with their academic advisor to choose technical electives that fit with their individual learning plan.