

University of Mary			UND		
<b>Petroleum Engineering requirements</b>					
Must be taken at UND			PTRE 201	3	Introduction to Petroleum Engineering
Must be taken at UND			PTRE 301	3	Reservoir Rock Properties
Must be taken at UND			PTRE 311	3	Petroleum Fluid Properties
Must be taken at UND			PTRE 361	1	Petroleum Engineering Lab I
Must be taken at UND			PTRE 401	3	Well Logging
Must be taken at UND			PTRE 405	3	Petroleum Engineering Economy and Law
Must be taken at UND			PTRE 411	3	Drilling Engineering
Must be taken at UND			PTRE 421	3	Production Engineering
Must be taken at UND			PTRE 431	3	Reservoir Engineering
Must be taken at UND			PTRE 445	3	Well Testing
Must be taken at UND			PTRE 451	3	Advanced Drilling Engineering
Must be taken at UND			PTRE 462	1	Petroleum Engineering Lab II
Must be taken at UND			PTRE 465	3	Petroleum Geomechanics
Must be taken at UND			PTRE 471	3	Numerical Reservoir Simulation
Must be taken at UND			PTRE 475	3	Well Completions
Must be taken at UND			PTRE 484	3	Research Design
Must be taken at UND			PTRE 485	3	Senior Design
<b>Program Required Technical Electives (6 credits total required)*</b>					
<b>College of Engineering and Mines Requirements</b>					
ENR 200	2	Computer for Math & Engineering	ENGR 200	2	Computer Applications in Engineering
ENR 201	3	Statics	ENGR 201	3	Statics
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			GEOE 210	4	Earth Dynamics and Petrophysics
Must be taken at UND			GEOL 407	3	Petroleum Geology
Must be taken at UND			ME 306	3	Fluid Mechanics
EME 341	3	Thermodynamics	ME 341	3	Thermodynamics
<b>Required courses for PTRE within other departments</b>					
CHE 111	4	General Inorganic Chemistry I	CHEM 121/L	4	General Chemistry I and lab
CHE 112	4	General Inorganic Chemistry II	CHEM 122/L	4	General Chemistry II 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
PHY 252/252L	4	Engineering Physics II: 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.