

B.S. in Petroleum Engineering from UND and B.A. in Geology from Adrian College (AC)

FIRST YEAR FALL	Credits	Taken	UND Course
GEOL 101: Physical Geology	4	AC	GEOL 101/L (subs for GEOE 210)
CCC 101: College Writing and Inquiry	4	AC	
MATH 135: Calculus & Analytical Geometry	4	AC	See Comb. Below ¹
CHEM 105: General Chemistry I	3	AC	CHEM 121
CHEM 117: General Chemistry I Lab	1	AC	CHEM 121L

FIRST YEAR SPRING	Credits	Taken	UND Course
GEOL 102: Historical Geology	4	AC	
MATH 205: Calculus & Analytical Geometry II	4	AC	See Comb. Below ¹
CHEM 106: General Chemistry II	3	AC	CHEM 122
CHEM 118: General Chemistry II Lab	1	AC	CHEM 122L
CCC 102: Public Speaking	3	AC	

SECOND YEAR FALL	Credits	Taken	UND Course
MATH 215: Calculus & Analytic Geometry III	4	AC	MATH 265
GEOL 316: Paleontology	4	AC	
PHYS 205: General Physics I	3	AC	See Comb. Below ²
PHYS 209: General Physics I Lab	1	AC	See Comb. Below ²
Distribution Course	3	AC	
PTRE 201: Introduction to Petroleum Engineering	3	UND	

SECOND YEAR SPRING	Credits	Taken	UND Course
MATH 305: Differential Equations	3	AC	MATH 266
Distribution Course	3	AC	
GEOL 307: Structural Geology	4	AC	GEOL 330 (Technical Elective)
PHYS 206: General Physics II	3	AC	See Comb. Below ²
PHYS 210: General Physics II Lab	1	AC	See Comb. Below ²
PTRE 301: Reservoir Rock Properties	3	UND	

THIRD YEAR FALL	Credits	Taken	UND Course
GEOL 301: Mineralogy	4	AC	
GEOL 318: Field & Lab Methods	4	AC	
ESAT 100: Principles of Fitness	2	AC	
ME 341: Thermodynamics	3	UND	
ME 306: Fluid Mechanics	3	UND	

THIRD YEAR SPRING	Credits	Taken	UND Course
GEOL 302: Petrology	4	AC	
GEOL 314: Sedimentology & Stratigraphy	4	AC	GEOL 411 (Technical Elective)
ESS 375: Geographic Information and Positioning Systems	4	AC	
Writing Intensive Course	3	AC	
PTRE 311: Petroleum Fluid Properties	3	UND	

College of Engineering & Mines Curriculum Information

FOURTH YEAR FALL	Credits	Taken	UND Course
GEOL 403: Capstone: Senior Research	2	AC	
MLC XXX: Approved Language Skills I	4	AC	
Distribution + Non Western Req. Course (Single course that "Double-Dips" both)	3	AC	
PTRE 401: Well Logging	3	UND	
PTRE 431: Reservoir Engineering	3	UND	
PTRE 411: Drilling Engineering	3	UND	

FOURTH YEAR SPRING	Credits	Taken	UND Course
MLC XXX: Approved Language Skills II	4	AC	
PTRE 451: Advanced Drilling Engineering	3	UND	
PTRE 445: Well Testing	3	UND	
GEOL 407: Petroleum Geology	3	UND	
ENGR 201: Statics	3	UND	
MATH 321: Applied Statistical Methods	3	UND	

FIFTH YEAR FALL	Credits	Taken	UND Course
PTRE 421: Production Engineering	3	UND	
PTRE 465: Petroleum Geomechanics	3	UND	
PTRE 471: Numerical Reservoir Simulation	3	UND	
PTRE 484: Research Design	3	UND	
PTRE 405: Petroleum Engineering Economy and Law	3	UND	
Distribution Course	3	AC	

FIFTH YEAR SPRING	Credits	Taken	UND Course
PTRE 485: Senior Design	3	UND	
PTRE 475: Well Completions	3	UND	
PHIL 304: Ethics	3	AC	ENGR 340
ENGR 203: Mechanics of Materials	3	UND	
ENGR 200: Computer Applications in Engineering	2	UND	

SUMMER LABS (ON UND CAMPUS)	Credits	When to Take
PTRE 361: Petroleum Engineering Lab I	1	After Fifth Year Spring
PTRE 462: Petroleum Engineering Lab II	1	After Fifth Year Spring

NOTES	
	1. MATH 135 and MATH 205 must both be completed for equivalency to UND's MATH 165 and MATH 166
	2. PHYS 205, PHYS 206, PHYS 209, and PHYS 210 must all be completed for equivalency to UND's PHYS 251 and PHYS 252
	<i>The above plan may not reflect the only path to graduation, nor should it be used as the sole advising document. Students are required to complete all requirements as listed in the UND Academic Catalog for graduation purposes and should work with their UND advisor to confirm progress towards completion.</i>