

FINISH IN 4 AT UND

When you begin your Petroleum Engineering degree at Bismarck State College.

Plan of Study: Bachelor of Science in Petroleum Engineering

Begin courses at BSC		
First Year First Semester		
ENGL 110 – College Composition		3
MATH 165 – Calculus I		4
CHEM 121/121L – General Chemistry I and lab		5
Humanities course – HIST 101, 102, 103 or 104		3
GEOL 105/L – Physical Geology and lab		4
Total Credits		19
First Year Second Semester		
ENGR 201 – Statics		3
ENGL 120/125 – College Composition <u>or</u> Intro to Professional Writing		3
MATH 166 – Calculus II		4
CHEM 122/L – General Chemistry II and lab		5
PTRE 201 – Intro to Petroleum Engineering (taken at UND)		3
Fine Arts elective (should be taken during summer term to reduce credit load)		3
Total Credits		21
Second Year First Semester		
ECON 201 – Principles of Microeconomics		3
MATH 265 – Calculus III		4
PHYS 251/251L – University Physics I and lab		5
COMM 110 – Fundamentals of Public Speaking		3
PTRE 301 – Reservoir Rock Properties (taken at UND)		3
Total Credits		18
Apply to UND by April 15		
<ul style="list-style-type: none"> • Complete online application at UND.edu/transfer • Request BSC transcripts to be sent to UND. 		
Apply for scholarships at UND by March 1		
<ul style="list-style-type: none"> • After admission submit application for campus-wide scholarships in UND's Scholarship Central 		
Second Year Second Semester		
MATH 266 – Differential Equations		3
PHYS 252/252L – University Physics II and lab		5
ENGR 203 – Mechanics of Materials		3
Social Science elective		3
Enrichment course		2
PTRE 311 – Petroleum Fluid Properties		3
Total Credits		19
Take next steps to begin at UND		
<ul style="list-style-type: none"> • Begin new student checklist at UND.edu/admitted • Attend UND Transfer Student Orientation at UND.edu/orientation • Student must apply for provisional acceptance into PDP in order to take all listed courses for Junior fall 		



Third Year First Semester		
	ME 306 – Fluid Mechanics	3
	PTRE 411 – Drilling Engineering	3
	MATH 321 – Applied Statistical Methods	3
	PTRE 401 – Well Logging	3
	PTRE 431 – Reservoir Engineering	3
	Total Credits	15
Third Year Second Semester		
	ENGR 200 – Computer Applications in Engineering	2
	ENGR 340 – Professional Integrity in Engineering	3
	GEOL 407 – Petroleum Geology	3
	ME 341 – Thermodynamics I	3
	PTRE 361 – Petroleum Engineering Lab I	1
	PTRE 445 – Well Testing	3
	PTRE 451 – Advanced Drilling Engineering	3
	Total Credits	18
Fourth Year First Semester		
	PTRE 421 – Production Engineering	3
	PTRE 465 – Petroleum Geomechanics	3
	PTRE 471 – Numerical Reservoir Simulations	3
	PTRE 484 – Research Design	3
	PTRE 405 – Petroleum Engineering Economy and Law	3
	Total Credits	15
Apply to graduate from UND		
	<ul style="list-style-type: none"> • After registering for your last semester of courses, apply at UND.edu/commencement 	
Fourth Year Second Semester		
	PTRE 485 – Senior Design	3
	PTRE 475 – Well Completions	3
	PTRE 462 – Petroleum Engineering Lab II	1
	PE Technical Elective	3
	PE Technical Elective	3
	Hum. AW – Humanities – Analyzing Worldview	3
	Total Credits	16
TOTAL CREDITS TO GRADUATE		141