

LEADERS CAN START ANYWHERE... AND FINISH THEIR DEGREE AT UND

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

Courses are sequenced to provide guidance and to help ensure that prerequisites are met.

Catalog Year: 2022-2023

Plan of Study: Bachelor of Science in Petroleum Engineering

Begin courses at Bismarck State College		
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
<p>Apply to UND by April 15</p> <ul style="list-style-type: none"> Complete online application at UND.edu/transfer Request transcripts to be sent to UND from BSC. <p>Apply for scholarships at UND by March 1</p> <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
<p>Take next steps to begin at UND</p> <ul style="list-style-type: none"> Begin new student checklist at UND.edu/admitted Attend UND Transfer Student Orientation at UND.edu/orientation 		

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

This information is provided as guide only. Students are strongly encouraged to meet with their major specific UND advisor.

An official evaluation of transfer credit will be done upon admission to the university. Transfer credits will be evaluated and applied according to the current catalog and the approved Essential Studies list at the first semester of enrollment at UND.

Transfer credit for courses other than those listed above will be evaluated on a course-by-course basis.

Students are required to fulfill UND graduation and GPA requirements to receive a degree and should consult with their UND advisor and the undergraduate catalog for details.