

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

When you begin your Petroleum Engineering degree at Williston 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 Williston State College		
First Year First Semester		
	ENGL 110: Composition I	3
	MATH 165: Calculus I	4
	GEOL 105/L: Physical Geology with lab	4
	HIST 102: Western Civilization to 1500 (D)	3
	CHEM 121/L: General Chemistry I/Lab	4
	UNIV 100 or 101: College Strategies or College Transitions	1
Total Credits		19
First Year Second Semester		
	PTRE 201: Introduction to Petroleum Engineering*	3
	MATH 166: Calculus II	4
	PHYS 251: University Physics I	4
	CHEM 122/L: General Chemistry II/Lab	4
	Wellness Course	2
	COMM 110: Public Speaking	3
Total Credits		20
Second Year First Semester		
	ENGR 200: Computer Applications in Engineering*	2
	MATH 265: Calculus III	4
	ENGL 130: College Composition: Writing for Public Audiences	3
	ENGR 201: Statics*	3
	PTRE 301 Reservoir Rock Properties	3
	SOC 110: Introduction to Sociology	3
Total Credits		18
Apply to UND by April 15 <ul style="list-style-type: none"> Complete online application at UND.edu/transfer Request Williston State College 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		
	PTRE 311: Petroleum Fluid Properties*	3
	MATH 266: Elementary Differential Equations	3
	ENGR 203: Mechanics of Materials*	3
	ENGR 340: Professional Integrity in Engineering*	3
	ME 341: Thermodynamics*	3
	MUSC 100: Introduction to Music	3
Total Credits		18
Admitted? Take next steps to begin at UND <ul style="list-style-type: none"> Begin new Transfer Student Checklist Sign up for Orientation 		

Third Year First Semester		
	PTRE 401: Well Logging	3
	PTRE 411: Drilling Engineering	3
	PTRE 431: Reservoir Engineering	3
	PHYS 252: University Physics II	4
	ME 306: Fluid Mechanics	4
Total Credits		17
Third Year Second Semester		
	PTRE 451: Advanced Drilling Engineering	3
	PTRE 445: Well Testing	3
	Technical Elective	3
	GEO 407: Petroleum Geology	3
	PTRE 361: Petroleum Engineering Lab**	1
Total Credits		13
Fourth Year First Semester		
	PTRE 421: Production Engineering	3
	PTRE 465: Petroleum Geomechanics	3
	PTRE 471: Numerical Reservoir Simulation	3
	PTRE 484: Research Design	3
	PTRE 405: Petroleum Engineering Econ 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
	Technical Elective	3
	Choose one from the following: MATH 321: Applied Statistical Methods OR CHE 315: Engineering Statistics and Design of Experiments	3
	PTRE 462: Petroleum Engineering Lab II	1
Total Credits		13
TOTAL CREDITS TO GRADUATE		133

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.

**Some courses during the first two years may need to be taken online collaboratively at UND in order to stay on track for four year graduation.*

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.

**Courses must be taken through UND (can be done so remotely) in order for sequencing of plan. Students can enroll through collaborative registration.*

***DEDP/Online students must complete laboratory requirements on-campus during summer semester.*