PETROLEUM ENGINEERING, PHD

Requirements for Students Matriculating in or before Academic Year 2024-2025. Learn more about Graduate College Academic Regulation 7.0 (http://catalog.okstate.edu/graduate-college/#70).

Total Hours: 68

Degree Program Core:PETE 5313Advanced Drilling Modeling and Simulation3PETE 5373Advanced Production and Flow Assurance3PETE 5373Advanced Well Stimulation3PETE 6813Research Methods in Petroleum3PETE 6813Research Methods in Petroleum3PETE 6813Research Methods in Petroleum3PETE 6010Petroleum Engineering Seminar21Degree Program Guided Electives:21PETE 510Special Topics in Petroleum EngineeringPETE 5210Special Topics in Petroleum EngineeringPETE 533Petroleum GeomechanicsPETE 5433Advanced Reservoir EngineeringPETE 543Advanced Well Design and Operational AnalysisPETE 5513Directional DrillingPETE 5513Directional DrillingPETE 5990Special Problems in Petroleum EngineeringPETE 513Advanced Chemical Reaction EngineeringPETE 513Advanced Chemical Reaction EngineeringPETE 513Process SimulationCHE 5133Neural NetworksCHE 5133Structural Styles in 0il and Gas ExplorationGEOL 5023Petroleum GeologyGEOL 5133Advanced Well Log AnalysisGEOL 5133Advanced Well Log AnalysisGEOL 6133Unconventional Petroleum ReservoirsGEOL 5133Advanced Well ManagementGEOL 5134Petroleum Mereroleum ReservoirsGEOL 6503Rock FracturesMATH 5063Calculus of Several VariablesMATH 5063 <th>Code</th> <th>Title</th> <th>Hours</th>	Code	Title	Hours	
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MATH 5263 Introduction to Partial Differential Equations	MATH 5023	Advanced Linear Algebra		
Equations	MATH 5233	Partial Differential Equations		
MATH 5553 Numerical Analysis for Linear Algebra	MATH 5263			
	MATH 5553	Numerical Analysis for Linear Algebra		

MATH 5563	Finite Element Methods for Partial	
	Differential Equations	
Statistics (CAS)		
STAT 5013	Statistics for Experimenters I	
Mechanical Engine	eering (CEAT)	
MAE 5233	Advanced Fluid Dynamics I	
MAE 5253	Multiphase Flow	
MAE 5563	Finite Element Methods	
MAE 5573	Continuum Mechanics	
Hours Subtotal		24
PETE 6000	Doctoral Thesis ²	32
Total Hours		68
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A maximum of 3 credit hours of PETE 5990 may be counted toward the guided electives requirement.

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6 hours of PETE 5000 may be substituted for PETE 6000 or 6 Hours of other coursework may be substituted for PETE 6000 at the discretion of Petroleum Graduate Coordinator.

Graduate College Doctor of Philosophy (PhD) Requirements

Learn more about Graduate College 2024-2025 Doctor of Philosophy (PhD) Degree Program Requirements (http://catalog.okstate.edu/ graduate-college/). Check the General Graduate College academic regulations for minimal GPA, language proficiency and other general requirements.