

Bachelor of Science in Petroleum Engineering Model Study Plan (2020-2021 Cohort onwards)

For Students Admitted to the University from the Fall Semester
Total Degree Credit hours: 147

Year	Semester	Course Code	Course Title	Cr	Course Type	Semester	Course Code	Course Title	Cr	Course Type
Year 1	1 (Fall)	ENR1110	Calculus for Engineering	3	Gen Ed Course (Cluster 1: Area 2: Quantitative Reasoning)	2 (Spring)	ENR1110	Calculus II for Engineering	3	College Requirement
		PHS1115	General Physics I	3	College Requirement		PHS1115	General Physics II	3	College Requirement
		PHS1116	General Physics Lab I	1	College Requirement		PHS1116	General Physics Lab II	1	College Requirement
		CHEM1111	General Chemistry	3	Gen Ed Course (Cluster 3: Area 1: Natural Sciences)		CEI1107	Introduction to Academic English For Engineering	3	Gen Ed Course (Cluster 1: Area 2: English Communication)
		ISLMD100	Islamic Culture	3	Gen Ed Course (Cluster 2: Area 4: Islamic Culture)		ENR6220	Engineering Thermodynamics	3	College Requirement
ENR6220	Computer Programming	3	College Requirement	ENR6215	Engineering Ethics	2	College Requirement			
		ENR6210	Student choice	3	Gen Ed Course (Cluster 2: Area 1: Humanities and Fine Arts)	STA1110	Probability and Statistics	3	College Requirement	
Year 2	3 (Fall)	ENR6300	Engineering and Strength of Materials	3	Specialization	4 (Spring)	ENR1115	Physical Geology for Petroleum Engineering	3	Specialization
		CHEM202	Organic Chemistry for Non-Majors	3	Specialization		PT2200	Drilling Engineering I	3	Specialization
		MATH2210	Differential Equations for Engineering	3	College Requirement		PT2300	Reservoir Mechanics	3	Specialization
		ENR6310	Chemical Engineering Fluid Mechanics	3	Specialization		MATH2220	Linear Algebra for Engineering	3	College Requirement
		PT1930	Reservoir Rock & Fluid Properties	3	Specialization		ENR1120	Data Analysis in Petroleum Engineering	3	Specialization
PT1250	Introduction to Petroleum Engineering	3	Specialization	PT1315	Reservoir Rock & Fluid Properties Lab	2	Specialization			
		CEI1241	Fundamentals of Innovation and Entrepreneurship	3	Gen Ed Course (Cluster 1: Area 1: Innovation and Entrepreneurship)	CEI1215	Chemistry Lab for Engineering	3	College Requirement	
Year 3	5 (Fall)	PT1411	Enhanced Oil Recovery	3	Specialization	6 (Spring)	ENR1125	Well Completion	3	Specialization
		PT1413	Aggregated Reservoir Geology	3	Specialization		ENR6315	Engineering Economics	3	Gen Ed Course (Cluster 2: Area 2: Social and Behavioral Sciences)
		PT1403	Well Logging	3	Specialization		PT1512	Petroleum Production Operations	3	Specialization
		PT1507	Well Testing	3	Specialization		ENR6320	Carbon Engineering Design Project	3	Specialization
		CEI1212	Fundamentals of Innovation and Entrepreneurship	3	Gen Ed Course (Cluster 1: Area 1: Innovation and Entrepreneurship)		ENR6315	Engineering Ethics	3	College Requirement
		ENR1121	Fourth Industrial Revolution	3	Gen Ed Course (Cluster 3: Area 2: Fourth Industrial Revolution)	ENR6320	Reservoir Rock & Fluid Properties Lab	2	Specialization	
		ENR1121	Sustainability	3	Gen Ed Course (Cluster 3: Area 2: Sustainability)	ENR6315	Student choice	3	Major Elective	
Year 4	7 (Fall)	PT1542	Petroleum Property Evaluation	3	Specialization	8 (Spring)	PT1407	Drilling Engineering II	3	Specialization
		PT1545	Design and Critical Thinking in Petroleum Engineering	3	Gen Ed Course (Cluster 1: Area 4: Critical Thinking)		PT1406	Natural Gas Engineering	3	Specialization
		PT1622	Reservoir Simulation	3	Specialization		PT1520	Fluid Flow in Porous Media Lab	3	Specialization
		ENR6320	Student choice	3	Major Elective		PT1550	Carbon Engineering Design Project	3	Specialization
				ENR6320	Student choice		3	Major Elective	ENR6320	Student choice
		PT1495	Industrial Training	15	Internship					

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For Students Admitted to the University from the Spring Semester
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Year	Semester	Course Code	Course Title	Cr	Course Type	Semester	Course Code	Course Title	Cr	Course Type
Year 1	1 (Spring)	ENR6210	Computer Programming	3	College Requirement	2 (Fall)	MATH1120	Calculus II for Engineering	3	College Requirement
		MATH1110	Calculus I for Engineering	3	Gen Ed Course (Cluster 1: Area 2: Quantitative Reasoning)		PHS1110	General Physics I	3	College Requirement
		PHS1115	General Physics I	3	College Requirement		PHS1116	General Physics Lab I	1	College Requirement
		CHEM1111	General Chemistry	3	Gen Ed Course (Cluster 3: Area 1: Natural Sciences)		STA1110	Probability and Statistics	3	College Requirement
		ISLMD100	Islamic Culture	3	Gen Ed Course (Cluster 2: Area 4: Islamic Culture)		ENR6215	Engineering Thermodynamics	3	College Requirement
		ENR6210	Student choice	3	Gen Ed Course (Cluster 2: Area 1: Humanities and Fine Arts)	ENR6220	Engineering Thermodynamics	3	College Requirement	
Year 2	3 (Spring)	ENR6300	Engineering and Strength of Materials	3	Specialization	4 (Fall)	PT1320	Reservoir Mechanics	3	Specialization
		CHEM202	Organic Chemistry for Non-Majors	3	Specialization		ENR6310	Chemical Engineering Fluid Mechanics	3	Specialization
		MATH2210	Differential Equations for Engineering	3	College Requirement		MATH2220	Linear Algebra for Engineering	3	College Requirement
		PT1930	Reservoir Rock & Fluid Properties	3	Specialization		PT1411	Enhanced Reservoir Geology	3	Specialization
		PT1250	Introduction to Petroleum Engineering	3	Specialization		PT1315	Reservoir Rock & Fluid Properties Lab	2	Specialization
		CEI1241	Fundamentals of Innovation and Entrepreneurship	3	Gen Ed Course (Cluster 1: Area 1: Innovation and Entrepreneurship)	CEI1212	Fourth Industrial Revolution	3	Gen Ed Course (Cluster 3: Area 2: Fourth Industrial Revolution)	
		ENR6310	Student choice	3	Major Elective	ENR6315	Sustainability	3	Gen Ed Course (Cluster 3: Area 2: Sustainability)	
Year 3	5 (Spring)	PT1512	Petroleum Production Operations	3	Specialization	6 (Fall)	PT1407	Drilling Engineering II	3	Specialization
		PT1540	Data Analysis in Petroleum Engineering	3	Specialization		PT1403	Well Logging	3	Specialization
		PT1508	Drilling Engineering I	3	Specialization		ENR6320	Carbon Engineering Design Project	3	Specialization
		ENR6315	Engineering Economics	3	Gen Ed Course (Cluster 2: Area 2: Social and Behavioral Sciences)		PT1507	Well Testing	3	Specialization
		CEI1222	Fundamentals of Innovation and Entrepreneurship	3	Gen Ed Course (Cluster 1: Area 1: Innovation and Entrepreneurship)		PT1520	Fluid Flow in Porous Media Lab	3	Specialization
		ENR6320	Student choice	3	Major Elective	PT1520	Student choice	3	Major Elective	
Year 4	7 (Spring)	PT1542	Design and Critical Thinking in Petroleum Engineering	3	Gen Ed Course (Cluster 1: Area 4: Critical Thinking)	8 (Fall)	PT1542	Petroleum Property Evaluation	3	Specialization
		PT1495	Natural Gas Engineering	3	Specialization		PT1508	Carbon Engineering Design Project	3	Specialization
		ENR6320	Student choice	3	Major Elective		PT1422	Reservoir Simulation	3	Specialization
		ENR6320	Student choice	3	Major Elective					
				PT1495	Industrial Training		15	Internship		