

**Part 1: Compulsory course setting and guiding study plan for petroleum engineering major**

Course Type	Course Code	Course Name	Credits	Credit Hours	Allocation of credit hours				Extra-curricular hour	Semesters/Credits								Remarks		
					Lecture	Experiment	Computer lab	Practice		1st year		2nd year		3rd year			4th year			
										1	2	S1	3	4	S2	5	6		S3	7
General Education Courses	02000	Freshmen Seminar	1.0	16	16					1.0										
	07137	Program Design	3.0	48	48			(40)		3.0										
	10114	College English (4-1)	3.0	48	48				48	3.0										
	11201	Moral Education and Law	3.0	48	32			16		3.0										
	11302	The Outline of Chinese Modern History	3.0	48	32			16		3.0										
	12101	Physical training (4-1)	1.0	32	32					1.0										
	20201	Military training	2.0	3.0Week					3.0Week	2.0										
	20202	Military theory	2.0	36	36					2.0										
	07136	Fundamentals of Computer	1.0	16	16			(16)			1.0									
	10114	College English (4-2)	3.0	48	48				48	3.0										
	12101	Physical training (4-2)	1.0	32	32					1.0										
	10114	College English (4-3)	3.0	48	48				48			3.0								
	11101	The Basic Principles of Marxism	3.0	48	32			16				3.0								
	12101	Physical training (4-3)	1.0	32	32							1.0								
	08003	Entrepreneurial Foundation	2.0	32	16	8		8				2.0								
	10114	College English (4-4)	3.0	48	48				48			3.0								
	11301	Mao Zedong Thought and the Theoretical System of	5.0	80	48				32			5.0								
12101	Physical training (4-4)	1.0	32	32							1.0									
Fundamental Courses for Major	09101	Advanced mathematics (2-1)	5.5	88	88				88	5.5										
	09101	Advanced mathematics (2-2)	5.0	80	80				80	5.0										
	04341	Engineering Drawing	3.0	48	44		4		48	3.0										
	09601	College Chemistry	2.5	40	36	4			40	2.5										
	09301	College Physics (2-1)	4.0	64	64				64	4.0										
	02991	Cognition Practice	2.0	2.0Week					2.0Week		2.0									
	09401	College Physics Experiment (2-1)	1.0	24		24						1.0								
	09103	Linear Algebra	2.0	32	32				32			2.0								
	06401	Engineering Mechanics	4.0	64	60	4			64			4.0								
	09612	Organic Chemistry	2.0	32	28	4			32			2.0								
	09301	College Physics (2-2)	3.0	48	48				48			3.0								
	09401	College Physics Experiment (2-2)	1.0	24		24						1.0								
	02314	Applied physical chemistry	2.5	40	40				40			2.5								
	01106	Fundamentals of Geology	2.0	32	28	4			32			2.0								
	02220	Fluid Mechanics	3.0	48	40	8			48			3.0								First half semester
	06311	Heat transfer	2.0	32	28	4			32			2.0								Second half semester
	01912	Geology Practice	2.0	2.0Week					2.0Week			2.0								
01114	Petroleum Development Geology	2.5	40	32	8			40				2.5								

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										1	2	S1	3	4	S2	5	6		S3	7	8	
Major Courses	02108	Fluid Flow in Porous Medium	3.0	48	48				48						3.0							
	02109	Physical Properties of Petroleum Reservoir	2.5	40	40				40						2.5							First half semester
	02148	Experiments of filtration mechanics and petrophysics	1.0	24		24									1.0							
	02112	Rock Mechanics	2.0	32	28	4			32						2.0							
	05402	Electrotechnics & Electronics I	3.0	48	38	10			48						3.0							
	01229	Logging Methods and Integrated Interpretation	2.0	32	32				32							2.0						
	02301	Oilfield Chemistry	2.0	32	32				32						2.0							Second half semester
	02801	Practical Experiments of Oilfield Chemistry	1.0	24		24									1.0							
	02102	Drilling Engineering	3.5	56	50	6			56							3.5						
	02103	Production Engineering	3.5	56	50	6			56							3.5						
	02104	Reservoir Engineering	3.5	56	52		4		56							3.5						
	02993	Oilfield Practice	4.0	4.0Week					4.0Week								4.0					
02004	English for Petroleum Engineering	2.0	32	32				32												2.0		
02166	Gas Production and Safety	2.0	32	28	4			32												2.0		
02902	Comprehensive Design of Petroleum Engineering	5.0	5.0Week					5.0Week												5.0		
02999	Graduation Project (thesis)	13.0	13.0Week					13.0Week												13.0		