

Oil- Gas Field Development Engineering

Program Code: 082002

1. Program Duration: 4-8 years

2. Required Credits: No less than 14 credits.

3. Curriculum

Course Type	Course Code	Course Name	Credit Hours	Credits	Semesters	Notes
Required course	7000001	Survey of China	36	2	1	
	7000011	Primary Chinese Language	32	2	1	
Optional course	7021003	Advances in Oil and Gas Production Engineering Science and Technology	48	3	1	
	7021002	Theories and Advances in Mechanics of Fluid Flow in Porous Media	48	3	1	
	7021001	Advances in Petroleum Field Development Science and Technology	48	3	1	
	7023001	Progresses in Science and Technology for Enhancing Oil and Gas Recovery	48	3	1	
	7021004	Intelligent Development of Oil and Gas Field Theory and Method	32	2	1	
	7021005	Theory and Technology of Natural Gas Hydrate Exploitation	32	2	1	
	6024015	Computational Fluid Dynamics	32	2	2	select 1 course
	6021021	Petroleum Engineering Related Rock Mechanics	32	2	2	
	7021007	Advanced Engineering Thermophysics	32	2	2	
	7023004	New Materials Science and Progress	32	2	2	

7023002	Advanced Colloid Chemistry	32	2	2	
7021009	Fundamental Methods of Computational Intelligence	32	2	2	
6000013	Visual-Audio-Oral Practice of English For Postgraduates	16	1	2	select 2 courses
6000014	Academic English: Reading & Writing	16	1	2	
6000015	Contrastive Study of English And Chinese & Translation	16	1	2	
6000016	Cross-Cultural Communication	16	1	2	
6000017	Appreciation of the Classic Literary Works in English-Speaking Countries	16	1	2	
6000018	English For Energy	16	1	2	
6000019	English For Studying Abroad	16	1	2	
7000024	Modern Applied Mathematics	48	3	1	
6000069	UPC Intensive Curricula	-	≤3	1-6	
5021001	Reservoir Engineering	56	3.5	2	select 2 courses
5021002	Oil Production Engineering	56	3.5	2	
5021003	Petrophysics	40	2.5	1	
5023001	Oilfield Chemistry	32	2	1	
5021010	Mechanics of Fluid Flow in Porous Media	48	3	1	
5021009	Advanced Mechanics of Fluid Flow in Porous Media	32	2	1	
5021008	Oil and Gas Advanced Production Theory	32	2	2	
6023001	Theory and Technology of Oil Production Chemistry	32	2	2	

Compulsory part	6021002	Advanced Reservoir Engineering	32	2	2	
	6021004	Big Data and Artificial Intelligence for Oil and Gas Field Development	32	2	1	
	8020101	Literature Reading and Thesis Proposal	-	1	4	
	8020102	Overseas Academic Exchange and Study & Training	-	1	1-8	