

中国石油大学（华东）来华留学硕士研究生
地质资源与地质工程（全英文）培养方案
Master Program for International Students
Geological Resources and Geological Engineering (English-Taught)

一级学科代码 First-level Discipline Code:	0818	一级学科名称 First-level Discipline:	地质资源与地质工程 Geological Resource and Geological Engineering
二级学科代码 Second-level Discipline Code	081800	二级学科名称 Second-level Discipline:	地质资源与地质工程 Geological Resource and Geological Engineering
校内专业代码 Program Code	081800	校内专业名称 Program Name:	地质资源与地质工程 Geological Resource and Geological Engineering
学制、学习年限 Duration、Maximum Study Period:	学制 3 年; Duration: 3 Years 学习年限 3-5 年; Maximum Study Period: 3 - 5 Years	所属院系 School:	地球科学与技术学院 School of Geosciences

培养目标 Program Objectives:

1) 具备一定的批判性思维和创新性思维，具有较强的工程规划、工程设计与运行、工程分析与集成、工程研究与开发、管理与决策等能力；掌握地质工程专业基础地质理论与勘探技术的知识，具有解决实际问题或担任专门技术工作的能力，具有国际视野，能够胜任专业领域研发和工程管理工作。

Possess critical and innovative thinking, and demonstrate strong capabilities in engineering planning, design and operation, engineering analysis and integration, engineering research and development, management and decision-making. Master the basic geological theories and exploration technologies of Geological Engineering. Graduates are competent in solving practical problems and undertaking professional technical work. With an international vision, they are qualified for research & development and engineering management in relevant professional fields.

2) 熟悉中国历史、地理、社会、经济等基本国情，了解中国政治制度和外交政策，理解中国社会主流价值观和公共道德观念，形成良好的法治意识。

Be familiar with China's history, geography, society, economy, and other aspects of its national conditions; understand China's political system and foreign policies; comprehend the mainstream social values and public ethics of Chinese society; and develop a sound awareness of the rule of law.

3) 初步掌握中文，达到《汉语水平考试》三级水平。具备文化多样性的认知、适应和沟通技能，能够在跨文化环境中发挥积极作用，成为促进中外交流的友好使者。

Acquire a basic command of the Chinese language and achieve at least Level 3 of the Chinese Proficiency Test (HSK). Develop the awareness, adaptability, and communication skills required in culturally diverse environments, and be able to play a positive role in intercultural settings, serving as a friendly ambassador for exchanges between China and other countries.

4) 在本学科领域中具有较好的国际视野，能够在多个国家的实际环境中运用和发展本学科的知识、技能和方法，并具备参与国际事务和国际竞争的能力。同时注重培养知华、友华的高层次人才，将学科专业水平与中国国情认知、跨文化交流能力有机结合。

Possess a broad international perspective in the field and be able to apply and further develop

the knowledge, skills, and methodologies of the discipline in practical environments across different countries. Demonstrate the capability to participate effectively in international affairs and global competition.

研究方向: Research Direction

1. 油气地质 (Petroleum geology)
2. 应用地球物理 (Geophysics)
3. 地质工程 geological Engineering

课程设置 Curriculum Structure;

类别 Course Category	分组情况 Grouping	课程编号 Course Code	课程名称 Course Title	学时 Class Hours	学分 Credi t	开课学期 Semester Offered	备注 Remarks
必修课 Compulsory Courses	Group 1: Select 7 courses (Compulsory)	L7000001	中国概况 (全英语授课) Survey of China	36	2	1	
		L7000011	汉语言基础 (全英语授课) Fundamental Chinese Language	48	3	1	
		L6000025	数值分析 Numerical Analysis	48	3	1	
		L6011051	高等石油地质学 Advanced Petroleum Geology	48	3	1-4	
		L6011052	储层地质学及油藏描述 Reservoir Geology and Oil Reservoir Description	48	3	1-4	
		L6013051	地球物理勘探方法 Geophysical exploration method	32	2	1-4	
		L6014051	地球物理测井方法 Geophysical well logging method	32	2	1-4	
专业选修课 Specialized Elective Course	第2组 (选修 课≥9学分) Group 2 (Elective Courses: ≥ 9 credits)	L5013032	地震资料数字处理 Seismic Data Processing	32	2	1-4	
		L6011003	油区岩相古地理 Oilfield Lithofacies Paleogeography	32	2	1-4	
		L6011008	油区构造解析 Oil Region Structure Analyzing	32	2	1-4	
		L6011028	油气勘探综合技术实训 Comprehensive training of Petroleum exploration Technology	32	2	1-4	

		L6011053	层序地层学 Sequence Stratigraphy	32	2	1-4	
		L6011054	成岩作用及储层评价 Diagenesis and Reservoir evaluation	32	2	1-4	
		L6011055	高等构造地质学 Advanced Structural Geology	16	1	1-4	
		L6011057	应用地球化学 Applied Geochemistry	32	2	1-4	
		L6012007	油藏地质基本技能实训 Reservoir Geological Basic Skills Training	32	2	1-4	
		L6013007	地球物理反演基础 Fundamentals of geophysical inversion	32	2	1-4	
		L7013051	应用地球物理前沿理论 与技术 Applied geophysics new technologies	16	1	1-4	
		L7014051	测井方法与技术前沿 Frontiers of Method and Technology of Well- Logging	16	1	1-4	
Upcic 课程	第 3 组 Group 3	L6000069	中国石油大学（华东） 集中式课程 Upcic: UPC Intensive Curricula	0	0	1-4	
补修课程 Make-up Courses	第 4 组（任选 2 门，补修课不 计入总学分） Group 4 (Pick 2 courses; remedial courses excluded from total credits)	L5011005	地球科学概论 Introduction of Earth Sciences	32	0	1-4	
		L5012001	石油地质学 Petroleum Geology	32	0	1-4	
		L5013002	地震勘探原理 Seismic Exploration Principles	32	0	1-4	
		L5014015	测井方法与原理 Method and Principles of Well-Logging	32	0	1-4	

必修环节 Compulsory Academic Requirements	第 5 组 选 2 门 (必修环节) Group 5 (2 items to select, Compulsory Sessions)	L7010101	参加 10 次以上学术报告，作 1 次公开学术报告 Attend minimum 10 academic seminars, deliver 1 academic presentation	0	1	1-4	
		L7010103	文献阅读与开题报告 (硕士) Literature Review and Research Proposal	0	1	1-4	

备注 Notes:

总学分最低为 28 分，必修课最低为 15 学分 Total credits: Min. 28; Compulsory courses: Min. 15 credits.