

# 油气储运工程专业国际学生本科指导性培养计划

表一

课程类别	课程性质	课程编号	课程名称	总学分	总学时(学周)	理论授课学时	实践教学				各 学 期 学 时（学周）								考核方式
							实验学时	上机学时	实践学时	实践学周	一	二	三	四	五	六	七	八	
通识与公共基础课程	必修课	112306-8	汉语1-3	12.0	196	196					64	64	64						闭卷
		112309-10	中国概况1-2	4.0	64	64					32	32							闭卷
		113101-4	体育1-4	4.0	144	120			24		36	36	36	36					综合测评
		109133-4	高等数学B1-2	11.0	176	176					80	96							闭卷
		109115	线性代数	2.0	32	32						32							闭卷
		109102	概率与数理统计	3.0	48	48							48						闭卷
		209106	计算方法	2.0	32	24		8							32				闭卷
		109201	大学物理A	6.0	96	96						96							闭卷
		109208	大学物理实验	1.5	36		36						36						综合测评
		116327	计算机与C程序设计基础	2.0	32	24		8			32								闭卷
		116328	C程序设计	3.0	48	28		20				48							闭卷
		免修课程			14.0	军训、军事理论、思想道德修养与法律基础、中国近现代史纲要、马克思主义基本原理、毛泽东思想和中国特色社会主义理论体系概论、形势与政策。													
	小 计			50.5	904	808	36	36	24		244	404	184	36	32				
选修课	见公共选修课一览表			8.0	160	选修《跨文化交流与国际视野》《西方文化概论》《中国文化概论》和其他5门跨学科门类课程。													

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表二

课程类别	课程性质	课程编号	课程名称	总学分	总学时 (学周)	理论 授课学时	实践教学				各 学 期 学 时 (学周)								考核方式
							实验学时	上机学时	实践学时	实践学周	一	二	三	四	五	六	七	八	
学科基础课程	必修课	202216	工程图学基础B	3.0	48	48					48								闭卷
		202217	机械制图基础及CAD	2.5	40	34		6				40							综合测评
		203104	工程化学	2.5	40	32	8				40								闭卷
		201312	工程材料	2.5	40	36	4						40						闭卷
		209305	工程力学	5.5	88	80	8						88						闭卷
		203207	化工流体力学	4.0	64	58	6							64					闭卷
		203201	工程热力学A	3.5	56	52	4							56					闭卷
		203208	传热学	3.5	56	52	4								56				闭卷
		203603	管道与储罐强度	2.0	32	32									32				闭卷
		202109	机械设计基础	4.0	64	58	6								64				闭卷
		205164	电工学基础	5.0	80	64	16							80					闭卷
		203602	储运油料学	2.0	32	28	4								32				闭卷
		206182	工程测量	2.0	32	24			8						32				闭卷
		033103	金工实习B	2.0	2					2		2周							综合测评
		002103	机械设计基础课程设计	3.0	3					3					3周				综合测评
		005103	电装实习	2.0	2					2				2周					综合测评
		小 计		49.0	672+7周	598	60	6	8	7	88	40+2周	128	200+2周	216+3周				
		303610	油气储运工程导论	1.0	16	16					16								综合测评

# 油气储运工程专业国际学生本科指导性培养计划

表二

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# 油气储运工程专业国际学生本科指导性培养计划

表二

课程类别	课程性质	课程编号	课程名称	总学分	总学时(学周)	理论授课学时	实践教学				各 学 期 学 时（学周）								考核方式
							实验学时	上机学时	实践学时	实践学周	一	二	三	四	五	六	七	八	
		小 计		48.5	352+27周	304	24	24		27	16		1周		48	168+6周	120+5周	15周	
	选修课	303204	阀门与密封	2.0	32	28	4									32			综合测评
		303608	LNG技术	2.0	32	30	2										32		综合测评
		303102	过程装备腐蚀与防护	2.0	32	32										32			综合测评
		303609	油气储运工程施工	2.0	32	32											32		综合测评
		小 计		8.0	128	122	6									64	64		
	至少选6学分																		

# 油气储运工程专业国际学生本科指导性培养计划

表三

课程类别	课程性质	课程编号	课程名称	总学分	总学时	理论授课学时	实践教学				各 学 期 学 时								考核方式					
							实验学时	上机学时	实践学时	实践学周	一	二	三	四	五	六	七	八						
创新创业教育	必修课	Y10010	创新创业基础	1.0	32	20			12				32						综合测评					
	选修课		创新课程	1.0								至少选修 3.0 学分。 学生可在第3-7学期选修科研创新训练 I - V 五个阶段的部分训练。								综合测评				
			开放实验	1.0																				综合测评
			科研创新训练 I	0.5																				综合测评
			科研创新训练 II	0.5																				综合测评
			科研创新训练 III	0.5																				综合测评
			科研创新训练 IV	0.5																				综合测评
			科研创新训练 V	0.5																				综合测评
			创新创业项目	2.0																	至少获得 2.0 学分，不占总学分			
第二课堂			2.0							至少获得 2.0 学分，不占总学分														

## Courses and Teaching Plan for Undergraduate Foreign Students majoring in *Oil & Gas Storage and Transportation Engineering*

Table 1

Course Category	Course type	Course code	Course name	Course credits	Hours (Weeks)	Theoretical teaching hours	Experiment & Internship				Semester hours(weeks)								Assessment method	
							Experimental hours	Computer study hours	Field practice hours	Field practice weeks	1	2	3	4	5	6	7	8		
General and public courses	Computory	112306-8	Chinese Language 1-3	12.0	196	196					64	64	64						Test	
		112309-10	A Survey of China 1-2	4.0	64	64					32	32							Test	
		113101-4	Physical Education 1-4	4.0	144	120			24		36	36	36	36					Comprehensive assessment	
		109133-4	Advanced Mathematics B1-2	11.0	176	176					80	96							Test	
		109115	Linear Algebra	2.0	32	32						32							Test	
		109102	Probability theory and Mathematical Statistics	3.0	48	48							48						Test	
		209106	Computing Method	2.0	32	24		8							32				Test	
		109201	Physics A	6.0	96	96						96							Test	
		109208	Physical Experiment of College	1.5	36		36						36						Comprehensive assessment	
		116327	Basis of Computer and C Programming	2.0	32	24		8			32								Test	
		116328	C Programming	3.0	48	28		20				48							Test	
		Exemption			14.0	Military Training, Military theory, Ideological and moral cultivation and legal basis, The outline of modern Chinese history, The fundamental tenets of Marxism, An introduction to Mao Zedong thought and the theoretical system of socialism with Chinese characteristics, Situation and Policy.														
		Sub-total			50.5	904	808	36	36	24		245	406	187	40					
	Optional	Select from the list of public optional courses			8.0	160	Select <Cross-cultural Communication and International Vision> <An Introduction to Western Culture> <An Introduction to Chinese Culture> and other 5 interdisciplinary courses													

## Courses and Teaching Plan for Undergraduate Foreign Students majoring in *Oil & Gas Storage and Transportation Engineering*

Table 2

Course Category	Course type	Course code	Course name	Course credits	Hours (Weeks)	Theoretical teaching hours	Experiment & Internship				Semester hours(weeks)								Assessment method
							Experimental hours	Computer study hours	Field practice hours	Field practice weeks	1	2	3	4	5	6	7	8	
Discipline Basic Courses	Computing	202216	Engineering Graphics Foundation B	3.0	48	48					48								Test
		202217	Mechanical Drawing Basics and CAD	2.5	40	34		6					40						Comprehensive assessment
		203104	Engineering chemistry	2.5	40	32	8					40							Test
		201312	Engineering materials	2.5	40	36	4							40					Test
		209305	Engineering mechanics	5.5	88	80	8							88					Test
		203207	Hydrodynamics in Chemical Engineering	4.0	64	58	6								64				Test
		203201	Engineering Thermodynamics A	3.5	56	52	4								56				Test
		203208	Heat transfer	3.5	56	52	4									56			Test
		203603	Strength Design of Pipe and Tanks	2.0	32	32											32		Test
		202109	Basis of Mechanical Designing	4.0	64	58	6									64			Test
		205164	Fundamentals of Electrical Engineering	5.0	80	64	16								80				Test
		203602	Storage and Transportation of Oil Material	2.0	32	28	4									32			Test
		206182	Engineering survey	2.0	32	24				8						32			Test
		033103	Training of Metal Process Technology B	2.0	2						2		2 weeks						Comprehensive assessment
		002103	Course Training of Basis of Mechanical Designing	3.0	3						3					3 weeks			Comprehensive assessment
		005103	Electrical Assembly Practice	2.0	2						2				2 weeks				Comprehensive assessment
Sub-total				49.0	672+7 weeks	598	60	6	8	7	88	40+2 weeks	128	200+2 weeks	216+3 weeks				

## Courses and Teaching Plan for Undergraduate Foreign Students majoring in *Oil & Gas Storage and Transportation Engineering*

Table 2

Course Category	Course type	Course code	Course name	Course credits	Hours (Weeks)	Theoretical teaching hours	Experiment & Internship				Semester hours(weeks)								Assessment method
							Experimental hours	Computer study hours	Field practice hours	Field practice weeks	1	2	3	4	5	6	7	8	
Special-ized Course	Compu-Isory	303610	Introduction of Oil & Gas Storage and Transportation	1.0	16	16					16								Comprehensive assessment
		303601	Pump and Compressor	3.0	48	44	4								48				Test
		303602	Design and Management of Gas Pipeline	3.0	48	44	4									48			Test
		303603	Design and Management of Oil Pipeline	3.0	48	44	4									48			Test
		303604	Design and Management of Oil Depot	3.0	48	44	4										48		Test
		303605	Oil & Gas Gathering and Transferring	3.0	48	44	4										48		Test
		303606	Urban Gas Transmission and Distribution	2.5	40	40										40			Comprehensive assessment
		303607	Measuring Instruments and Automation	2.0	32	28	4									32			Comprehensive assessment
		003601	Cognition Practice	1.0	1					1			1 week						Comprehensive assessment
		003602	Integrated Training of Major Application Software	1.0	24			24									24		Comprehensive assessment
		003603	Curriculum Design of Oil Transmission Pipelines	2.0	2					2						2 weeks			Comprehensive assessment
		003604	Curriculum Design of Gas Transmission Pipelines	2.0	2					2						2 weeks			Comprehensive assessment
		003605	Curriculum Design of City Gas Transmission and Distribution	2.0	2					2						2 weeks			Comprehensive assessment
		003606	Curriculum Design of Oil Depot Design	2.0	2					2							2 weeks		Comprehensive assessment
		003607	Production Practice	3.0	3					3							3 weeks		Comprehensive assessment



## **Courses and Teaching Plan for Undergraduate Foreign Students majoring in *Oil & Gas Storage and Transportation Engineering***

Table 2

Course Category	Course type	Course code	Course name	Course credits	Hours (Weeks)	Theore- tical teaching hours	Experiment & Internship				Semester hours(weeks)								Assessment method	
							Experimen- tal hours	Computer study hours	Field practice hours	Field practice weeks	1	2	3	4	5	6	7	8		
		003608	Graduation Design	15.0	15					15								15 weeks	Comprehensive assessment	
		Sub-total			48.5	352+27 weeks	304	24	24		27	16		1 week		48	168+6 weeks	120+5 weeks	15 weeks	
	Option- al	303204	The Valve and Sealing	2.0	32	28	4										32			Comprehensive assessment
		303608	LNG Technology	2.0	32	30	2											32		Comprehensive assessment
		303102	Process equipment corrosion and protection	2.0	32	32											32			Comprehensive assessment
		303609	Oil & Gas Storage and Transportation Construction	2.0	32	32												32		Comprehensive assessment
		Sub-total			8.0	128	122	6									64	64		
		Choose at least 6 credits																		

## **Courses and Teaching Plan for Undergraduate Foreign Students majoring in *Oil & Gas Storage and Transportation Engineering***

Table 3

Course Category	Course type	Course code	Course name	Course credits	Hours (Weeks)	Theore-tical teaching hours	Experiment & Internship				Semester hours(weeks)								Assessment method	
							Experimen-tal hours	Computer study hours	Field practice hours	Field practice weeks	1	2	3	4	5	6	7	8		
Innovation and Entrepreneurship	Compu-lsory	Y10010	Foundation of Innovation and Entrepreneurship	1.0	32	20			12					32					Comprehensive assessment	
	Option-al		Innovation Courses	1.0								Earn at least 3.0 credits.								Comprehensive assessment
			Open Experiments	1.0																Comprehensive assessment
			Research Training I	0.5																Comprehensive assessment
			Research Training II	0.5																Comprehensive assessment
			Research Training III	0.5								Students can take part in part or all of Research Training I - V in semester 3-7.	Comprehensive assessment							
			Research Training IV	0.5									Comprehensive assessment							
			Research Training V	0.5									Comprehensive assessment							
			Innovation and Entrepreneurship Projects	2.0								Earn at least 2.0 credits. BUT those credits are not included in the graduation credits.								
	Second Classroom Activities				2.0							Earn at least 2.0 credits. BUT those credits are not included in the graduation credits.								