

通信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	192	192					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
		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
		016234	C程序设计课程设计	2.0	2			2				2周							综合测评
			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、思想政治理论课程实践。														
			小 计	50.5	870	780	36	30	24		244	404	184	36					
	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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							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	202207	工程制图基础 I	3.0	48	48					48								闭卷
		205112	电路分析基础	4.0	64	56	8					64							闭卷
		205140	模拟电子技术	4.0	64	56	8						64						闭卷
		205122	数字电子技术	4.0	64	56	8							64					闭卷
		216312	通信电子线路	3.0	48	48									48				闭卷
		016335	通信电子系统课程设计	3.0	3周					3					3周				综合测评
		216325	电磁场与微波技术	4.0	64	64								64					闭卷
		016326	电子工艺训练	1.0	1周					1			1周						综合测评
		305203	单片机原理与应用	2.5	40	32	8								40				闭卷
		216322	信号与系统	4.0	64	56	8							64					闭卷
		216326	数字信号分析与处理	3.0	48	48									48				闭卷
		016307	信号处理课程设计	3.0	3周					3				3周					综合测评
		216311	通信原理	4.0	64	64									64				闭卷
		216313	信息论与编码	2.5	40	40									40				闭卷
		216327	面向对象技术 (Java)	3.0	48	32		16					48						闭卷
		216317	MATLAB及系统仿真	2.0	32	20		12						32					综合测评
		216323	通信系统基础实验	1.0	24		24								24				综合测评
		小 计		51.0	712+7周	156	24	28		7	48	64	176	176	216				
		316324	通信工程专业导论	1.0	16	16					16								综合测评

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							实验学时	上机学时	实践学时	实践学周	一	二	三	四	五	六	七	八	
专业课程	必修课	216316	通信专业英语	2.0	32	32									32				综合测评
		216324	信息交换原理	3.0	48	40	8									48			闭卷
		305328	现代通信网	2.0	32	32											32		闭卷
		316308	计算机网络	3.0	48	48											48		闭卷
		316321	光纤通信	3.0	48	40	8									48			闭卷
		316304	移动通信	3.0	48	40	8										48		闭卷
		316326	EDA与嵌入式系统	2.5	40	40										40			综合测评
		016336	EDA与嵌入式系统课程设计	3.0	3					3						3周			综合测评
		016336	通信系统与网络仿真	3.0	3					3							3周		综合测评
		016309	无线通信综合训练	3.0	3					3						3周			综合测评
		033103	金工实习B	2.0	2					2			2周						综合测评
		016306	专业认知实习	1.0	1					1			1周						综合测评
		016311	毕业实习	2.0	2					2								2周	综合测评
		005303	毕业设计	13.0	13					13								13周	综合测评
		小 计		46.5	339	288	24			27	16		3周		32	136+6周	128+3周	15周	
		316322	天线与电波传播	2.0	32	32										32			综合测评

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							实验学时	上机学时	实践学时	实践学周	一	二	三	四	五	六	七	八	
选修课		316318	多媒体通信	2.0	32	32									32			综合测评	
		316327	随机信号分析与处理	2.0	32	32								32				综合测评	
		316206	信息安全	2.0	32	32									32			综合测评	
		316246	物联网应用系统与开发	2.0	32	32										32		综合测评	
		316288	数据库原理	2.0	32	32										32		综合测评	
		316331	软件工程基础	2.0	32	32										32		综合测评	
		小 计		6.0	192	192													
	至少选6学分																		

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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						
创新与创业教育	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 *Communication 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	Computers	112306-8	Chinese Language 1-3	12.0	192	192					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	Mathematical analysis B1-2	11.0	176	176					80	96							Test
		109115	Linear Algebra	2.0	32	32						32							Test
		109102	Probability and Statistics for Engineers	3.0	48	48							48						Test
		109201	Physics A	6.0	96	96						96							Test
		109208	Physical Experiment of College	1.5	36		36						36						Comprehensive assessment
		116327	Foundation of Computer and C programming	2.0	32	24		8			32								Test
		116328	C Programming	3.0	48	28		20				48							Test
		016234	Curriculum Design of C	2.0	2			2				2W							Comprehensive assessment
		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			64.5	870	780	36	30	24		244	404	184	36				
	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 *Communication 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	Computational	202207	Foundation of Engineering Drawing I	3.0	48	48					48								Test
		205112	Circuit Analysis	4.0	64	56	8					64							Test
		205140	Analog Electronic Technology	4.0	64	56	8						64						Test
		205122	Digital Electronic Technology	4.0	64	56	8							64					Test
		216312	Communication Electronic Circuit	3.0	48	48									48				Test
		016335	Curriculum Design of Communication Electronic Circuit	3.0	3					3					3 weeks				Comprehensive assessment
		216325	Electromagnetic Field and Microwave Technology	4.0	64	64								64					Test
		016326	Electronic Process Training	1.0	1					1			1 week						Comprehensive assessment
		305203	Principle and Application of Single Chip Microcomputer	2.5	40	32	8								40				Test
		216322	Signals and Systems	4.0	64	56	8						64						Test
		216326	Digital Signal Analysis and Processing	3.0	48	48								48					Test
		016307	Curriculum Design of Signal Processing	3.0	3					3				3 weeks					Comprehensive assessment
		216311	Principles of Communication	4.0	64	64									64				Test

Courses and Teaching Plan for Undergraduate Foreign Students majoring in *Communication engineering*

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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	
		216313	Information Theory and Coding	2.5	40	40									40				Test
		216327	Object Oriented Programming (Java)	3.0	48	32		16					48						Test
		216317	MATLAB and System Simulation	2.0	32	20		12						32					Comprehensive assessment
		216323	Experiments of Communication System	1.0	24		24								24				Comprehensive assessment
		Sub-total		51.0	712+7 weeks	620	64	28		7	48	64	176+3 weeks	208+3 weeks	216+3 weeks				
	Compu	316324	Introduction of Communication Engineering	1.0	16	16					16								Comprehensive assessment
		216316	Communication English	2.0	32	32									32				Comprehensive assessment
		216324	Principles of Information Exchange	3.0	48	40	8									48			Test
		305328	Modern Communication Network	2.0	32	32											32		Test
		316308	Computer Network	3.0	48	48											48		Test
		316321	Optical Fiber Communication	3.0	48	40	8									48			Test
		316304	Mobile Communication	3.0	48	40	8										48		Test
		316326	EDA and Embedded systems	2.5	40	40										40			Comprehensive assessment

Courses and Teaching Plan for Undergraduate Foreign Students majoring in *Communication 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	-ISORY	016336	Curriculum Design of EDA and Embedded Systems	3.0	3					3						3 weeks			Comprehensive assessment
		016336	Communication System and Network Simulation	3.0	3					3							3 weeks		Comprehensive assessment
		016309	Integrating Train of Wireless Communication	3.0	3					3						3 weeks			Comprehensive assessment
		033103	Metalworking Internship B	2.0	2					2			2 weeks						Comprehensive assessment
		016306	Professional Cognitive Practice	1.0	1					1			1 week						Comprehensive assessment
		016311	Graduation Internship	2.0	2					2								2 weeks	Comprehensive assessment
		005303	Graduation Design	13.0	13					13								13 weeks	Comprehensive assessment
		Sub-total		46.5	320+27 weeks	288	24			27	16		5 weeks		32	136+6 weeks	128+3 weeks	15 weeks	
	Option-al	316322	Antenna and Radio Wave Propagation	2.0	32	32										32			Comprehensive assessment
		316318	Multimedia Communication	2.0	32	32										32			Comprehensive assessment
		316327	Random Signal Analysis and Processing	2.0	32	32									32				Comprehensive assessment
		316206	Information Security	2.0	32	32										32			Comprehensive assessment
		316246	Application and Development of IoT	2.0	32	32											32		Comprehensive assessment

Courses and Teaching Plan for Undergraduate Foreign Students majoring in *Communication 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		
		316288	Database Principles	2.0	32	32											32		Comprehensive assessment	
		316331	Foundation of Software Engineering	2.0	32	32											32		Comprehensive assessment	
		Sub-total			6.0	192	192									32	96	96		
		Choose at least 6 credits																		

Courses and Teaching Plan for Undergraduate Foreign Students majoring in *Communication 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- n and Entrepren- eurship	Compu- lsory	Y10010	Foundation of Innovation and Entrepreneurship	1.0	32	20			12										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.							