

计算机科学与技术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
		116309	C语言程序设计	3.5	56	32		24			56								闭卷
		016234	C程序设计课程设计	2.0	2周					2周		2周							综合测评
		016233	专业认知实习	1.0	1周					1周		1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	64.0	848+3周	764	36	24	24	3周	268	356+3周	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	209107	离散数学	3.5	56	56							56						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
		005104	电子技术课程设计	2.0	2周					2周					2周				综合测评
		216310	面向对象技术（C++）	3.0	48	40		8					48						闭卷
		016205	面向对象课程设计	2.0	2周					2周			2周						综合测评
		216215	汇编语言	3.0	48	40		8							48				闭卷
		216235	算法与数据结构	3.0	48	48								48					闭卷
		016405	算法与数据结构课程设计	2.0	2周					2周				2周					综合测评
		205309	操作系统原理	3.5	56	48		8							56				闭卷
		216233	计算机组成原理	3.0	48	40	8									48			闭卷
		016203	计算机组成原理课程设计	2.0	2周					2周						2周			综合测评
		205141	微机原理及应用	4.0	64	52	12									64			闭卷
		005109	微机原理及应用课程设计	2.0	2周					2周						2周			综合测评
		216237	数据库原理	3.0	48	48								48					闭卷
		016204	数据库课程设计	2.0	2周					2周				2周					综合测评
		316206	信息安全	2.0	32	32											32		闭卷
				小 计		52.0	640+12周	572	44	24		12周			168+2周	160+4周	168+2周	112+4周	32

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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	316270	计算机科学导论	2.0	32	32					32								综合测评
		316230	计算机网络	3.5	56	48	8										56		闭卷
		316272	Linux与嵌入式系统	3.5	56	40	16									56			闭卷
		316218	软件工程	3.5	56	56										56			闭卷
		316205	Java技术	3.0	48	40		8						48					闭卷
		016237	Java课程设计	2.0	2周					2周				2周					综合测评
		316236	编译原理	3.0	48	48									48				闭卷
		316220	人工智能	2.0	32	32											32		综合测评
		316273	python程序设计语言	2.5	40	24		16								40			综合测评
		316221	数字图像处理	2.0	32	32											32		综合测评
		216217	专业外语	2.0	32	32										32			综合测评
		016247	智能系统开发课程设计	2.0	2周					2周							2周		综合测评
		016238	毕业实习	2.0	2周					2周								2周	综合测评
		016201	毕业设计	13.0	13周					13周								13周	综合测评
		小 计		46.0	432+19周	384	24	24		19周	32			48+2周	48	184	120+2周	15周	
		316285	算法设计与分析	2.0	32	32									32				闭卷

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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	316274	Java Web编程技术	2.0	32	24		8						32					综合测评
		316259	计算机系统结构	2.0	32	32										32			综合测评
		316275	大型数据库技术	2.0	32	24		8							32				综合测评
		316276	大数据与数据处理	2.0	32	32										32			综合测评
		小 计			10.0	160	144		16						64	32	64		
		至少选6学分																	

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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					
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 *Computer Science and Technology*

Table 1

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		
General and public courses	Compu- lsory	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	
		109201	Physics A	6.0	96	96						96							Test	
		109208	Physical Experiment of College	1.5	36		36							36					Comprehensive assessment	
		116309	C Language Programming	3.5	56	32		24				56							Test	
		016234	Curriculum Design of C	2.0	2 weeks						2		2 weeks							Comprehensive assessment
		016233	Professional Cognitive Practice	1.0	1 week						2		1 week							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, Ideological and political theory course practice.														
	Sub-total			64.0	848+3 weeks	764	36	24	24	3	268	356+3 weeks	184	36						
	Option- al	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 *Computer Science and Technology*

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	209107	Discrete Mathematics	3.5	56	56							56						Test
		205112	Basis of Circuit Analysis	4.0	64	56	8						64						Test
		205140	Analog Electronics Technique	4.0	64	56	8							64					Test
		205122	Digital Electronic Technique	4.0	64	56	8								64				Test
		005104	Curriculum Design of Digital Electronic Technique	2.0	2					2					2 weeks				Comprehensive assessment
		216310	Object Oriented Programming (C++)	3.0	48	40		8					48						Test
		016205	Curriculum Design of Object Oriented Programming	2.0	2					2			2 weeks						Comprehensive assessment
		216215	Assembly Language	3.0	48	40		8							48				Test
		216235	Algorithms and Data Structures	3.0	48	48								48					Test
		016405	Curriculum Design of Algorithms and Data Structures	2.0	2W					2				2 weeks					Comprehensive assessment
		205309	Principles of Operating System	3.5	56	48		8							56				Test
		216233	Principles of Computer Composition	3.0	48	40	8									48			Test
		016203	Curriculum Design of Computer Composition Principles	2.0	2W					2						2 weeks			Comprehensive assessment

Courses and Teaching Plan for Undergraduate Foreign Students majoring in *Computer Science and Technology*

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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	
		205141	Principle & Application of Microcomputer	4.0	64	52	12									64			Test
		005109	Curriculum Design of Microcomputer Principle & Application	2.0	2W					2						2 weeks			Comprehensive assessment
		216237	Database Principles	3.0	48	48								48					Test
		016204	Curriculum Design of Database Principles	2.0	2W					2				2 weeks					Comprehensive assessment
		316206	Information Security	2.0	32	32											32		Test
		Sub-total		52.0	640+12W	572	44	24		12			168+2 weeks	160+4 weeks	168+2 weeks	112+4 weeks	32		
	Computer Science	316270	Introduction of Computer Science	2.0	32	32					32								Comprehensive assessment
		316230	Computer Network	3.5	56	48	8										56		Test
		316272	Linux and embedded system	3.5	56	40	16									56			Test
		316218	Software Engineering	3.5	56	56										56			Test
		316205	Java Technique	3.0	48	40		8						48					Test
		016237	Curriculum Design of Java Technique	2.0	2W					2				2 weeks					Comprehensive assessment
		316236	Principles of Compiler	3.0	48	48									48				Test
		316220	Artificial Intelligence	2.0	32	32											32		Comprehensive assessment

Courses and Teaching Plan for Undergraduate Foreign Students majoring in *Computer Science and Technology*

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			
Special -ized Course	-isory	316273	Python Programming	2.5	40	24		16								40			Comprehensive assessment		
		316221	Digital Image Processing	2.0	32	32											32		Comprehensive assessment		
		216217	Computer English	2.0	32	32										32			Comprehensive assessment		
		016247	Curriculum Design of Intelligent System Development	2.0	2						2							2 weeks		Comprehensive assessment	
		016238	Graduation Internship	2.0	2													2 weeks		Comprehensive assessment	
		016201	Graduation Design	13.0	13														13 weeks		Comprehensive assessment
		Sub-total			46.0	432+19 weeks	384	24	24		19	32			48+2 weeks	48	184	120+2 weeks	15 weeks		
	Option -al	316285	Algorithm Design and Analysis	2.0	32	32									32					Test	
		316274	Java Web Programming	2.0	32	24		8							32					Comprehensive assessment	
		316259	Computer Architecture	2.0	32	32											32			Comprehensive assessment	
		316275	Large Database Technique	2.0	32	24		8								32				Comprehensive assessment	
		316276	Big data and data processing	2.0	32	32											32			Comprehensive assessment	
		Sub-total			10.0	160	144		16							64	32	64			
		Choose at least 6 credits																			

Courses and Teaching Plan for Undergraduate Foreign Students majoring in in *Computer Science and Technology*

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	Compulsory	Y10010	Basics of Innovation and Entrepreneurship	1.0	32	20			12				32						Comprehensive assessment		
	Optional		Innovation Courses	1.0							Earn at least 3.0 credits. Students can take part in part or all of Research Training I - V in semester 3-7.								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															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.											