Program for Computer science and technology

1. Target

This 4 year prgoram aims to cultivate a systematic, theory-based understanding of the
natural sciences applicable to the computer technologies, including software and hardware.The graduates will be a comp
specialist,working in the field of scientific research departments, technical departments, management and maintenance
departments, education and other departments.

2. Requirment

**The first two semester of is the scientific literacy training in large class，professional training begins at the thir
semester in small class.**

Graduates have a solid knowledge of computer science and technology, prepared to take courses from computer researc
developmjent based on the obtained knowleges of computer architecture analysis, design, develop and test。Bisides the
education, three are professional courses and special courses.

The graduates should acquire the following knowledge and ability:

1.Aquired the basic theories and methods in the field of computer science and technology；

2.Aquired knowledge that supports engineering analysis and design in a practice area；

3.Have the basic ability of analysis, research and development of computer application systems；

4.Known the relevant laws and regulations of computer science and technology；

5.Know the development tendency of computer science and technology；

6.Prepared for literature search and data query in the broadest context of technological change；

7.Have strong self-learning ability, practical engineering ability,innovation consciousness and language application a

3. Length of schooling,graduation credits,award degree

Length of Schooling：4 year
Graduation minimum credits：165 credits
award a degree：Bachelor of Engineering

4. Curriculum and credit distribution

（1）General education courses（52 credits）
requirement：Compulsory courses in general education, 40 credit；6 optional courses in general education，12 credit
6 optional courses,there must be a course from humanities and history, a course from Shipping category, and 4 others se
the field of Art and culture category,Economy and management category,innovation and entrepreneurship category,law
and science and technology category.
（2）Basic courses（41 credits）
requirement：Full discipline basic courses, totally 41 credits.
（3）Professional education courses（78 credits）
requirement：theoretical course 61 credits, including 32 credits for practical cours；Optional professional courses,17 c
（4）Additional course（3 credits）
requirement：totally 3 credits.

Computer sicence&technology department, Undergraduates program, 2015															
category	Course number	Course Name	credit	hour	By course hours				Examining way	By semes				
					Theoretical	operating	experiment	practice		1	2	3	4	5
General Education	WL4100	Conspectus of Chinese Modern	2	36	36				exam	2				
	WL5100	Pysical Education 1	1	36	36				exami	2				
	WY1100	college English 1	4	72	72				exam	4				
	XX3100	Computer Foundation	2	36	30	6			exam	2				
	QT62001	Military theory	1	18	18				exami		2			
	WL4200	Human Nature and the	3	54	45		9		exami		3			
	WL5100	Pysical Education 2	1	36	36				exam		2			
	WY1100	college English 2	4	72	72				exam		4			
	XX1101	C programming experiment	1	36			36		exami		2			
	XX110590	C programming design	3	54	54				exam		3			
	WL410030	Basic principles of Marxism	3	54	45		9		exam			3		
	WL5100	Pysical Education 3	1	36	36				exam			2		
	WY1100	college English 3	4	72	72				exam			4		
	WL4100	Principles of Marxis	3	54	45		9		exam				3	
	WL5100	Pysical Education 4	1	36	36				exam				2	
	WY1100	college English 4	4	72	72				exam				4	
	QT62002	Situation and Policy	2	36	36				exami					
	XX3100	Computer application ability	0	18	6	12			exami					
	Compulsory general education courses accounts for 40 credits, totaolly 18 subjects													
Disciplinary	WL2100	Advanced Mathematics A-1	5	90	90				exam	5				
	WL2100	Linear algebra	3	54	54				exam	3				
	WL2100	Advanced Mathematics A-2	5	90	90				exam		5			
	WL2101	Probability and Statistics	3	54	54				exam		3			
	WL3100	College Physics 1	3	54	54				exam		3			
	XX1102	Discrete mathematics	4	72	72				exam		4			
	WL3100	College Physics 2	3	54	54				exam			3		
	WL3200	Experiment of physics	1	45			45		exam			3		
	XX1102	Object-Oriented Programming	2	36	36				exam			2		
	XX1102	Experiment of Object-Oriented	0.5	18			18		exam			1		
	XX1103	Data structure	4	72	72				exam			4		
	XX1103	Experiment of Data structure	0.5	18			18		exam			1		
	XX1102	Computer network	3	54	54				exam				3	
	XX1102	Experiment of computer	0.5	18			18		exam				1	
	XX1101	Operating System	3	54	54				exam					3
	XX1101	Experiment of Operating	0.5	18			18		exam					1
	Major foundation courses account for 41 credits, 16 courses.													
Cumpulsory	XX1101	Circuits and Electronics	4	72	72				exami			4		
	XX1101	Experiment of Circuit and	0.5	18			18		exam			1		
	XX1201	Calculation method	2	36	36				exam			2		
	XX1103	Principle and Application of	3	54	54				exami				3	
	XX1103	Experiment of Principle and	0.5	18			18		exam				1	
	XX1104	Digital Logic	3	54	54				exami				3	
	XX1104	Experiment of Digital Logic	0.5	18			18		exam				1	
	XX1204	Algorithms Design and	2	36	36				exam				2	
	XX1206	Program design and	2	36	36				exam				2	
	XX1206	Experiment of Program design	0.5	18			18		exam				1	
	XX110240	Principles of Computer Organization&Assembly	4.5	81	81				examine					5

	XX110240s	Experiment of Principles of Computer	0.5	18			18		exam					1
	XX110100	Fundamentals of Compiling	3	54	54				examine					
	XX1104	Microcomputer	2.5	45	45				exami					
compulsory	XX110480s	Experiment of Microcomputer	0.5	18			18		exam					
	Compulsory specialized courses accrounts for 29.0 credits, 15 course.													
Optional	XX1206	JAVA programming	2.5	54	36		18		exami			3		
	XX1206	Linux operation system	2.5	54	36		18		exami				3	
	XX1206	Web development	2.5	54	36		18		exami					3
	JY12028	Supply chain management	2	36	36				exami					
	XX1202	Computer graphics	2.5	54	36		18		exami					
	XX1202	Computer architecture	3	54	54				exami					
	XX1203	Software develop management	3	54	45		9		exami					
	XX1207	Image processing	2.5	54	36		18		exami					
	QT11001	Logistics information	2.5	54	36		18		exam					
	XX1203	Principles of Artificial	3	54	54				exami					
	Optional specialized courses accounts for 29 credits, with at least 17 credits must be completed.													
Practice	QT62701	Military training	0	36				2	exami	√				
	XX1270	Practical software practice	2	36				2	exami	√				
	XX127270	Course exercise of Object-oriented programming	2	36				2 weeks	examine			√		
	XX127040	Course exercise of Principle & Application of Database	2	36				2 weeks	examine				√	
	XX127090	Course exercise of	2	36				2 weeks	examine					√
	XX127030	Course exercise of Operating system	2	36				2 weeks	examine					
	XX127110	Course exercise of Application software development	2	36				2 weeks	examine					
	XX127060	Course exercise of computer hardware	2	36				2 weeks	examine					
	XX127130	Graduation project, including Graduation practice	9	324				18 weeks	examine					
	Practice Teaching accounts for 23 credits,9 courses.													
Aadditional	QT820010	additional course	3	0					examine					
	Additional course accounts for 3 credits													
General Education	Humanities and history	Required course:1，credit: 2.0												
	Shipping class	Required course:1，credit 2												
	Others	Required courses:4，credit 8.0 (Remark: amony courses of Art and culture,Economics & management,s technology,Innovation and Entrepreneurship and law, at least two courses must be completed)												
	Required courses:6，credits:12.0													

	Course category	Hour	%	Credit	%	Weekly school hours	1	2	3	4	5
Credit hour Ratio	Compulsory general education	828	30.4	40	24.2		10	16	9	9	
	Major fundamation	801	29.4	41	24.8		8	15	14	4	4
	Compulsory specialized	576	21.1	29	17.6				7	13	6
	Optional specialized	306	11.2	17	10.3	In semester independent distribution					
	Practial teaching			23	13.9						
	additional			3	1.8						
	Optional general education	216	7.9	12	7.3	In semester independent distribution					
Total		2727	100	165	100		18	31	30	26	10

	Number	Name	Prerequisite course
Prerequisite	XX110280	Course exercise of Object-oriented programming	C programing
	XX110270	Discrete mathematics	Advanced Mathematics
	XX110240	Principles of Computer Organization&Assembly	Digital Logic,C programming
	XX110390	Principle and Application of Database	Data structure
	XX110380	Data structure	Discrete mathematics, C programming
	XX110590	C programing	Practical software practice, Computer Foundation
	XX110100	Fundamentals of Compiling	Discrete mathematics, Operating system

The English version is for reference only. The Chinese version shall be subject to.

puter

d

:h and
e general

bility.

:.Among
elected in
category

credits.

ter

6	7	8
		2
		1

3		
3		
1		

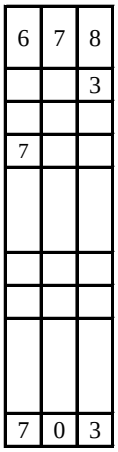
2		
3		
3		
3		
3		
	3	
	3	

.

√		
√		
	√	
		√

		0

science &


6 7 8
3
7
7 0 3