2012 Undergraduate Curriculum for Computer Science and Technology (Experimental Class) (Ⅰ)

Course Number	Course Title	Assessment	Credits	Total Hrs	Lec	Lab	Practice	Recitation	1 (19W)	I (0W)	2 (18W)	II (3W)	3 (19W)	III (0W)	4 (18W)	IV (3W)	5 (19W)	V (0W)	6 (18W)	VI (3W)	7 (19W)	VII (0W)	8 (16W)	Responsible Unit
0004312	Modern Chinese History	Exam	2	32	32	0	0		2															College of Humanities and Social Sciences
0000011	Physical Education-1	General Assessment	1	32	32	0	0		1															Department of Physical Education
0000008	College English (Band Two)	Exam	4	64	64	0	0		4															College of Foreign Languages
0005044	Oral English-1	General Assessment	2	32	32	0	0		2															College of Foreign Languages
0001908	Linear Algebra (Engineering)	Exam	3	54	48	0	0	6	3															College of Applied Sciences
0001903	Calculus (Engineering)-1	Exam	5.5	99	64	0	0	35	5.5															College of Applied Sciences
0004311	Ethical Conduct and Fundamentals of Law	Exam	3	48	32	0	16				3													College of Humanities and Social Sciences
0000012	Physical Education-2	General Assessment	1	32	32	0	0				1													Department of Physical Education
0000009	College English(Band Three)	Exam	4	64	64	0	0				4													College of Foreign Languages
0005047	Oral English -2	General Assessment	2	32	32	0	0				2													College of Foreign Languages
0000072	University Physics I-1	Exam	4	64	64	0	0				4													College of Applied Sciences
0001904	Calculus (Engineering)-2	Exam	5.5	99	64	0	0	35			5.5													College of Applied Sciences
0002784	Fundamentals of National Defense	General Assessment	2	32	32	0	0					2												Students' Affairs Office
0006457	Fundamentals of Chinese Sociology	Exam	4	64	48	0	16						4											School of Marxism
0000013	Physical Education-3	General Assessment	1	32	32	0	0						1											Department of Physical Education
0000010	College English (Band Four)	Exam	4	64	64	0	0						4											College of Foreign Languages
0000073	University Physics I-2	Exam	4	64	64	0	0						4											College of Applied Sciences
0000014	Physical Education-4	General Assessment	1	32	32	0	0								1									Department of Physical Education
0004361	Introduction to Philosophy	Exam	3	48	48	0	0								3									School of Marxism
0003333	Probability and Statistics (Engineering)	Exam	3	54	50	0	0	4									3							College of Applied Sciences
University Requirements		Sub-total	59.0	1042	930	0	32	80	17.5		19.5	2	13	0	4	0	3		0	0	0	0	0	
0004752	High Language Programming	Exam	4	64	64	0	0		4															College of Computer Science

Course Number	Course Title	Assessment	Credits	Instruction Hour Allocation					Credits Distribution for Semesters																Responsible Unit
				Total Hrs	Lec	Lab	Practice	Recita-tion	1	I	2	II	3	III	4	IV	5	V	6	VI	7	VII	8	
									19 W	0 W	18 W	3 W	19 W	0 W	18 W	3 W	19 W	0 W	18 W	3 W	19 W	0 W	16 W	
0007077	Freshmen Seminar Course	General Assessment	1	16	16	0	0		1															College of Computer Science
0007370	Set Theory and Graph Theory	Exam	2.5	45	42	0	0	3					2.5											College of Computer Science
0002357	Circuit and Electronics Technology	Exam	4	64	64	0	0						4											College of Electronic Information and Control Engineering
0005686	Digital Logic	Exam	3	48	48	0	0						3											College of Computer Science
0004842	C++ Language Programming (Self-learning)	General Assessment	1	16	16	0	0						1											College of Computer Science
0007388	Data Structures and Algorithms	Exam	4	64	54	10	0								4									College of Computer Science
0007361	Algebraical Structure and Symbolic Logic	Exam	2.5	45	42	0	0	3							2.5									College of Computer Science
0007374	Principles of Computer Organization	Exam	3.5	56	50	0	0	6							3.5									College of Computer Science
0004855	Assembly Language Programming (Self-learning)	General Assessment	1	16	4	12	0								1									College of Computer Science
0007358	Principles of Operating Systems	Exam	3.5	56	35	16	0	5									3.5							College of Computer Science
0000345	Database Systems Principles	Exam	3	48	40	8	0										3							College of Computer Science
0005684	Computer Network	Exam	2.5	40	40	0	0										2.5							College of Computer Science
0006408	Microcomputer Interface Techniques	Exam	2	32	32	0	0										2							College of Computer Science
0005688	Principles of Compiling	Exam	3.5	56	44	12	0												3.5					College of Computer Science
0004868	Introduction of Software Engineering	Exam	2.5	40	40	0	0												2.5					College of Computer Science
	Discipline Requirements	**Sub-total**	**43.5**	**706**	**631**	**58**	**0**	**17**	**5**		**0**		**10.5**		**11**		**11**		**6**		**0**		**0**	
0004746	Machine Shop Training A	General Assessment	1	30	0	0	30		1															College of Mechanical Engineering & Applied Electronics Technology
0007365	High Language Programming Project	General Assessment	1.5	45	0	0	45				1.5													College of Computer Science
0004964	Physics Laboratory (Engineering)-1	General Assessment	1	24	2	22	0				1													College of Applied Sciences
0007384	Cognitive Practice	General Assessment	1	30	0	0	30				1													College of Computer Science
0003087	Practices of National Defense	General Assessment	1	30	0	0	30					1												Students' Affairs Office
0002385	Circuit and Electronics Technology Experiments	General Assessment	2	48	12	36	0						2											College of Electronic Information and Control Engineering
0004965	Physics Laboratory (Engineering)-2	General Assessment	1.5	36	0	36	0						1.5											College of Applied Sciences
0002380	Digital Logic Experiments	General Assessment	0.5	12	0	12	0						0.5											College of Computer Science

Course Number	Course Title	Assessment	Credits	Total Hrs	Lec	Lab	Practice	Recita-tion	1	I	2	II	3	III	4	IV	5	V	6	VI	7	VII	8	Responsible Unit
									19W	0W	18W	3W	19W	0W	18W	3W	19W	0W	18W	3W	19W	0W	16W	
0007376	Principles of Computer Organization Project	General Assessment	0.5	12	0	12	0								0.5									College of Computer Science
0007069	Social Practices	General Assessment	2	48	0	0	48									2								College of Humanities and Social Sciences
0007375	Principles of Computer Organization Project	General Assessment	1.5	45	0	0	45									1.5								College of Computer Science
0002761	Data Structures Project	General Assessment	2	60	0	0	60										2							College of Computer Science
0002383	Computer Network Experiments	General Assessment	0.5	12	0	12	0										0.5							College of Computer Science
0002384	Microcomputer Interface Experiments	General Assessment	0.5	12	0	12	0										0.5							College of Computer Science
0007372	Computer Network Project	General Assessment	1.5	45	0	0	45													1.5				College of Computer Science
0007385	Software Engineering Project	General Assessment	2	60	0	0	60													2				College of Computer Science
0007366	Professional Practice	General Assessment	4	120	0	0	120														4			College of Computer Science
0005687	Senior Project	General Assessment	16	480	0	0	480																16	College of Computer Science
Practical Requirements		**Sub-total**	**40.0**	**1149**	**14**	**142**	**993**	**0**	**1**		**3.5**	**1**	**4**		**0.5**	**3.5**	**3**		**0**	**3.5**	**4**	**0**	**16**	
Discipline Electives			10.5	168							3						3		2.5		2			
Major Requirements			8.0	128													2		4		2			
Major Electives			6.0	96											1		1		2		2			
GEESEM:EM			6.0	96											2				2		2			
GEESEM:M			5.0	80															2.5					
General Education Electives			6.0	96													2		2		4.5			
Total for Theoretical Instruction			144.0	2412					22.5		22.5	2	23.5		18	0	22		21	0	12.5	0	0	
Total for Practical Instruction			42.0	1209					1		3.5	1	4		0.5	3.5	4		0	3.5	5	0	16	
Innovation Requirements			4.0	96															2		2			
Total			**190.0**	**3717**					**23.5**		**26**	**3**	**27.5**		**18.5**	**3.5**	**26**		**23**	**3.5**	**19.5**	**0**	**16**	

Notation: GEESEM:EM is the abbreviation for General Education Electives for Science and Engineering Majors: Economics and Management.

GEESEM:M is the abbreviation for General Education Electives for Science and Engineering Majors: Mathematics.

2012 Undergraduate Curriculum for Computer Science and Technology (Experimental Class) (Ⅱ)

Direction	Course Number	Course Title	Assessment	Credits	Total Hrs	Lec	Lab	Prac-tice	Recit a-tion	1 (19W)	I (0W)	2 (18W)	II (3W)	3 (19W)	III (0W)	4 (18W)	IV (3W)	5 (19W)	V (0W)	6 (18W)	VI (3W)	7 (19W)	VII (0W)	8 (16W)	Responsible Unit
	0005682	Object-Oriented Programming	General Assessment	3	48	32	16	0						3											College of Computer Science
	0003483	Introduction to Artificial Intelligence	General Assessment	2.5	40	40	0	0										2.5							College of Computer Science
	0000627	Computer Architecture	General Assessment	2.5	40	27	8	0	5									2.5							College of Computer Science
	0000626	Interactive Computer Graphics (Chinese/English)	General Assessment	2.5	40	34	4	0	2											2.5					College of Computer Science
	0004886	Law about Information Security	General Assessment	2	32	32	0	0												2					College of Computer Science
	0004884	Technology of Next Generation Internet	General Assessment	2	32	22	8	0	2													2			College of Computer Science
Discipline Electives			**Sub-total**	**≥10.5**																					
Software Engineering Technology	0007383	Introduction to Human-Computer Interaction	General Assessment	2	32	30	0	0	2									2							College of Computer Science
Software Engineering Technology	0005698	Software Quality management and Testing	General Assessment	2	32	24	8	0												2					College of Computer Science
Software Engineering Technology	0005696	Software Architecture	General Assessment	2	32	32	0	0												2					College of Computer Science
Software Engineering Technology	0007378	Agile Software Development	General Assessment	2	32	32	0	0														2			College of Computer Science
Distributed Software	0004847	Foundation for Web Development Technology	General Assessment	2	32	22	10	0										2							College of Computer Science
Distributed Software	0004875	Network Programming	General Assessment	2	32	22	10	0												2					College of Computer Science
Distributed Software	0004853	Introduction to Distributed Systems	General Assessment	2	32	26	4	0	2											2					College of Computer Science
Distributed Software	0000334	Parallel Computing	General Assessment	2	32	24	8	0														2			College of Computer Science
Computer System Architecture	0004846	TCP/IP Analysis and Application	General Assessment	2	32	24	6	0	2									2							College of Computer Science
Computer System Architecture	0004865	Embedded System Architecture	General Assessment	2	32	20	12	0												2					College of Computer Science
Computer System Architecture	0007364	Multi-core Computing	General Assessment	2	32	32	0	0												2					College of Computer Science
Computer System Architecture	0007369	Principle of Cluster Computing	General Assessment	2	32	20	12	0														2			College of Computer Science
Digital Media Technology	0005685	Digital Image Processing	General Assessment	2	32	32	0	0										2							College of Computer Science
Digital Media Technology	0005693	Multimedia Technology	General Assessment	2	32	20	12	0												2					College of Computer Science
Digital Media Technology	0001084	Digital Signal Processing	General Assessment	2	32	24	4	0	4											2					College of Computer Science
Digital Media Technology	0005683	Pattern Recognition	General Assessment	2	32	32	0	0														2			College of Computer Science
Major Requirements			**Sub-total**	**≥8**																					

Direction	Course Number	Course Title	Assessment	Credits	Instruction Hour Allocation					Credits Distribution for Semesters															Responsible Unit
					Total Hrs	Lec	Lab	Prac-tice	Recit a-tion	1 19W	I 0W	2 18W	II 3W	3 19W	III 0W	4 18W	IV 3W	5 19W	V 0W	6 18W	VI 3W	7 19W	VII 0W	8 16W	
	0007391	The Design and Analysis of Algorithms	General Assessment	2	32	32	0	0								2									College of Computer Science
	0004848	Windows Programming	General Assessment	2	32	24	8	0								2									College of Computer Science
	0004873	Grid Computing	General Assessment	2	32	24	8	0										2							College of Computer Science
	0004893	Introduction of Semantic Web	General Assessment	2	32	32	0	0										2							College of Computer Science
	0000631	Digital System Design (Chinese/English)	General Assessment	2	32	16	16	0										2							College of Computer Science
	0002359	Principle of Data Communication	General Assessment	2	32	29	0	0	3									2							College of Computer Science
	0004858	Principles and Technology of Computer Control	General Assessment	2	32	26	6	0										2							College of Computer Science
	0004882	Massively Multiplayer Game Development	General Assessment	2	32	24	8	0												2					College of Computer Science
	0007350	Linux Operating Systems	General Assessment	2	32	22	8	0	2											2					College of Computer Science
	0004872	Advanced Database Technologies	General Assessment	2	32	32	0	0												2					College of Computer Science
	0003484	Data Mining	General Assessment	2	32	32	0	0												2					College of Computer Science
	0000635	Natural Language Processing	General Assessment	2	32	32	0	0												2					College of Computer Science
	0003485	Digital Identification and Authentication System	General Assessment	2	32	32	0	0												2					College of Computer Science
	0007387	Video/Image Compression and Processing Techniques	General Assessment	2	32	28	4	0												2					College of Computer Science
	0007348	3D Game Development Technology	General Assessment	2	32	26	6	0												2					College of Computer Science
	0004879	Principles & Technique of Network Management	General Assessment	2	32	24	8	0												2					College of Computer Science
	0004866	Embedded System Application & Development Technology	General Assessment	2	32	20	12	0												2					College of Computer Science
	0002367	Advanced Micro-computer System	General Assessment	2	32	32	0	0												2					College of Computer Science
	0004867	Software Reuse Technology	General Assessment	2	32	24	8	0														2			College of Computer Science
	0000622	Advanced Operating Systems (Chinese/English)	General Assessment	2	32	31	0	0	1												2			College of Computer Science
	0002768	Electronic Commerce	General Assessment	2	32	20	12	0														2			College of Computer Science
	0004891	Virtual Reality and Its Application	General Assessment	2	32	26	6	0														2			College of Computer Science
	0004857	Defense of Computer Virus	General Assessment	2	32	16	16	0														2			College of Computer Science
	0004852	Firewall Technology	General Assessment	2	32	16	16	0														2			College of Computer Science
	0003477	Network Security Detection and Keep away Technology	General Assessment	2	32	24	8	0														2			College of Computer Science
	0005697	Software Project Management	General Assessment	2	32	24	8	0														2			College of Computer Science

Direction	Course Number	Course Title	Assessment	Credits	Instruction Hour Allocation					Credits Distribution for Semesters															Responsible Unit
					Total Hrs	Lec	Lab	Prac-tice	Recit-a-tion	1 19W	I 0W	2 18W	II 3W	3 19W	III 0W	4 18W	IV 3W	5 19W	V 0W	6 18W	VI 3W	7 19W	VII 0W	8 16W	
	0007371	Computer Vision	General Assessment	2	32	32	0	0														2			College of Computer Science
	0004880	Network Planning & Designing	General Assessment	2	32	24	8	0														2			College of Computer Science
	0007354	Design Technique Based on SOPC	General Assessment	2	32	20	12	0														2			College of Computer Science
	Major Electives		**Sub-total**	**≥6**																					
Software Engineering Technology/Distributed Software	0002556	Project of System Software	General Assessment	2	60	0	0	60										2							College of Computer Science
Digital Media Technology	0007347	Project in 3D Scene Modeling and Remote Interaction Course	General Assessment	2	60	0	0	60														2			College of Computer Science
Computer System Architecture	0007380	Embedded Technology Project	General Assessment	2	60	0	0	60														2			College of Computer Science
	Practical Electives			**≥2**																					

Vice-Director: **Vice-President:**

Date: **Date:**