2012 Undergraduate Curriculum for Computer Science and Technology（Ⅰ）

Course Number	Course Title	Assessment	Credits	Instruction Hour Allocation					Credits Distribution for Semesters																Responsible Unit
				Total Hrs	Lec	Lab	Practice	Recita-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	
0000732	Ethical Conduct and Fundamentals of Law	General Assessment	3	48	32	0	16	0	3															Department of Basic Science
0000733	Modern Chinese History	General Assessment	2	32	32	0	0	0			2													Department of Basic Science
0000735	Introduction to Philosophy	General Assessment	3	48	48	0	0	0					3											Department of Basic Science
0001416	Fundamentals of Chinese Sociology	General Assessment	4	64	48	0	16	0							4									Department of Basic Science
0001251	College English (Band One)	Exam	4	64	64	0	0	0	4															Department of Basic Science
0001252	College English (Band Two)	Exam	4	64	64	0	0	0			4													Department of Basic Science
0000067	College English (Band Three)	Exam	4	64	64	0	0	0					4											Department of Basic Science
0000068	College English (Band Four)	Exam	4	64	64	0	0	0							4									Department of Basic Science
0000442	Physical Education-1	General Assessment	1	32	32	0	0	0	1															Department of Basic Science
0000447	Physical Education-2	General Assessment	1	32	32	0	0	0			1													Department of Basic Science
0000448	Physical Education-3	General Assessment	1	32	32	0	0	0					1											Department of Basic Science
0000449	Physical Education-4	General Assessment	1	32	32	0	0	0							1									Department of Basic Science
0000141	Calculus (Engineering)-1	Exam	5.5	99	64	0	0	35	5.5															Department of Basic Science
0000142	Calculus (Engineering)-2	Exam	5.5	99	64	0	0	35			5.5													Department of Basic Science
0000505	Linear Algebra (Engineering)	Exam	3	54	48	0	0	6	3															Department of Basic Science
0000133	Probability and Statistics (Engineering)	General Assessment	3	54	50	0	0	4							3									Department of Basic Science
0000064	University Physics -1	Exam	4	64	64	0	0				4													Department of Basic Science
0000065	University Physics -2	Exam	4	64	64	0	0						4											Department of Basic Science
0000295	Fundamentals of National Defense	Exam	2	32	32	0	0	0				2												Students' Affairs Office
University Requirements		**Sub-total**	**59**	**1042**	**930**	**0**	**32**	**80**	**16.5**	**0**	**16.5**	**2**	**12**	**0**	**12**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	
0001424	Freshmen Seminar Course	General Assessment	1	16	16	0	0	0	1															Department of Information Engineering
0000234	Foundations of Computer Science	General Assessment	2	32	24	8	0	0	2															Department of Information Engineering

Course Number	Course Title	Assessment	Credits	Instruction Hour Allocation					Credits Distribution for Semesters																Responsible Unit
				Total Hrs	Lec	Lab	Practice	Recita-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	
0001465	Advanced Language Programming Ⅰ	General Assessment	3	48	32	16	0	0			3														Department of Information Engineering
0001389	Fundamental Circuit Analysis Ⅱ Syllabus	Exam	2	32	32	0	0	0			2														Department of Information Engineering
0001315	Discrete Mathematics	Exam	4	64	64	0	0	0					4												Department of Information Engineering
0001427	Digital Logic Syllabus	Exam	2	32	32	0	0	0					2												Department of Information Engineering
0001485	Object-Oriented Programming Ⅰ	General Assessment	2	32	16	16	0	0					2												Department of Information Engineering
0001486	Data Structure and Algorithms Ⅰ	Exam	4	64	48	16	0	0							4										Department of Information Engineering
0001498	Analog Electronic Technology Ⅱ	Exam	2	32	32	0	0	0							2										Department of Information Engineering
0001499	Principles of Computer Organization and Assembly Language	Exam	3	48	48	0	0	0							3										Department of Information Engineering
0001487	Database Principles(Chinese/English)	Exam	2.5	40	40	0	0	0									2.5								Department of Information Engineering
0001501	Principle and Interface Technology of Microcomputer	Exam	3	48	48	0	0	0									3								Department of Infromation Engineering
0001489	Operating System Ⅰ	Exam	4	64	40	24	0	0									4								Department of Information Engineering
0001105	Computer Network	Exam	3	48	48	0	0	0											3						Department of Information Engineering
0000029	Compiler Principle	Exam	3	48	44	4	0	0											3						Department of Information Engineering
0000371	Software Engineering	Exam	3	48	48	0	0	0											3						Department of Information Engineering
Discipline Requirements		**Sub-total**	**43.5**	**696**	**612**	**84**	**0**	**0**	**3**	**0**	**5**	**0**	**8**	**0**	**9**	**0**	**9.5**	**0**	**9**	**0**	**0**	**0**	**0**	
0000366	Cognitive Practice	General Assessment	1	30	0	0	30	0	1															Department of Information Engineering
0000296	Practices of National Defense	General Assessment	1	30	0	0	30	0						1											Students' Affairs Office
0000954	Machine Shop Training A	Exam	1	30	0	0	30	0					1												College of Mechanical Engineering and Applied Electronics
0001421	Physics Laboratory -1	General Assessment	1	24	0	24	0	0					1												Department of Basic Science
0001428	Experiments of Fundamental Circuit Analysis Ⅱ	General Assessment	0.5	12	0	12	0	0			0.5														Department of Information Engineering
0001508	Course Design of Advance Language Programming Ⅰ	General Assessment	1	30	0	0	30	0			1														Department of Information Engineering
0001423	Physics Laboratory -2	General Assessment	1.5	36	0	36	0	0					1.5												Department of Basic Science
0001510	Digital Logic Experiments	General Assessment	1	24	0	24	0	0					1												Department of Information Engineering
0001500	Analog Electronic Technology Ⅱ Experiments	General Assessment	1	24	0	24	0	0							1										Department of Information Engineering

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	
0000326	Course Project of Object—Oriented Programming	General Assessment	1	30	0	0	30	0					1											Department of Information Engineering
0001511	Computer Assembly And Debugging	General Assessment	1	24	0	24	0	0							1									Department of Information Engineering
0001429	Experiments in Computer Principles and Assembly language	General Assessment	1	24	0	24	0	0							1									Department of Information Engineering
0001512	Course Project of Data Structures and Algorithms I	General Assessment	1	30	0	0	30	0								1								Department of Information Engineering
0001430	Database Programming Practice	General Assessment	1	30	0	0	30	0									1							Department of Information Engineering
0001513	Experimental of Computer Principle & Interface Technique	General Assessment	1	24	0	24	0	0									1							Department of Information Engineering
0001514	Network Integrated Training	General Assessment	1.5	45	0	0	45	0											0.5	1				Department of Information Engineering
0001077	Software Project Comprehensive Design	General Assessment	3	90	0	0	90	0											1	2				Department of Information Engineering
0001432	Thematic Training of Embedded System Design	General Assessment	2	60	0	0	60	0													2			Department of Information Engineering
0001418	Professional Practice	General Assessment	4	120	0	0	120	0													4			Department of Information Engineering
0007069	Social Practices	General Assessment	2	48	0	0	48	0							2									Department of Basic Science
0000026	Senior Project	General Assessment	16	480	0	0	480	0															16	Department of Information Engineering
Practical Requirements		**Sub-total**	**43.5**	**1245**	**0**	**192**	**1053**	**0**	**1**	**0**	**3.5**	**1**	**3.5**	**0**	**3**	**3**	**2**	**0**	**1.5**	**3**	**6**	**0**	**16**	
Discipline Electives			4	64	64																4			
Major Electives			4	64	64												2		2					
Major Requirements			12	192	192												4		4		4			
GEESEM:EM			9	144	144												3		3		3			
General Education Electives			9	144	144												3		3		3			
Electives		Sub-total	38	608	608	0	0	0	0	0	0	0	0	0	0	0	12	0	12	0	14	0	0	
Total for Theoretical Instruction			140.5	2346	2150	84	32	80	19.5	0	21.5	2	20	0	21	0	21.5	0	21	0	14	0	0	
Total for Practical Instruction			43.5	1245	0	192	1053	0	1	0	3.5	1	3.5	0	3	3	2	0	1.5	3	6	0	16	
Innovation Requirements			4	96			96												2		2			
Total			**188**	**3687**	**2150**	**276**	**1181**	**80**	**20.5**	**0**	**25**	**3**	**23.5**	**0**	**24**	**3**	**23.5**	**0**	**24.5**	**3**	**22**	**0**	**16**	

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

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Course Number	Course Title	Assessment	Credits	Total Hrs	Lec	Lab	Practice	Recita-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
0001515	UML and Software Modeling	General Assessment	2	32	32																2			Department of Information Engineering
0001516	Computer Graphics and Visualization (Chinese/English)	General Assessment	2	32	32																2			Department of Information Engineering
0001070	Computer System Structure	General Assessment	2	32	32																2			Department of Information Engineering
Discipline Electives		**Sub-total**	**6**	**96**	**96**																			
0001517	Java Programming	General Assessment	1	16	16												1							Department of Information Engineering
0001472	Network Programming	General Assessment	1	16	16												1							Department of Information Engineering
0001433	WEB Technology	General Assessment	2	32	16	16											2							Department of Information Engineering
0001471	Software Project Management	General Assessment	2	32	16	16													2					Department of Information Engineering
0001470	Service Oriented Architecture	General Assessment	2	32	32														2					Department of Information Engineering
0001518	Software Testing and Quality Assurance	General Assessment	2	32	16	16															2			Department of Information Engineering
0000740	MCU and Aplication	General Assessment	2	32	16	16											2							Department of Information Engineering
0001469	Embedded System Structure	General Assessment	3	48	48												3							Department of Information Engineering
0001434	Embedded System Principle of Design	General Assessment	3	48	48														3					Department of Information Engineering
0001520	The Application of Embedded System Design	General Assessment	3	48	48														3					Department of Information Engineering
0001521	SOPC	General Assessment	3	48	48																3			Department of Information Engineering
Major Requirements		**Sub-total**	**24**	**384**	**320**	**64**	**0**																	
0001326	J2ME	General Assessment	2	32	16	16											2							Department of Information Engineering
0001522	Windows Phone Programming(self-learning)	General Assessment	2	32	16	16											2							Department of Information Engineering
0001490	Linux Kernel	General Assessment	2	32	22	10													2					Department of Information Engineering
0001437	Intelligent Control	General Assessment	2	32	24	8													2					Department of Information Engineering
0001468	Internet of Things	General Assessment	2	32	32														2					Department of Information Engineering
0001348	Computer Technology	General Assessment	2	32	32																2			Department of Information Engineering

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	
0001467	Human Computer Interaction	General Assessment	2	32	32																	2			Department of Information Engineering
0001383	Technology of Information Security	General Assessment	2	32	32																	2			Department of Information Engineering
0001438	Embedded GUI Programming	General Assessment	2	32	24	8																2			Department of Information Engineering
Major Electives		**Sub-total**	**18**	**288**	**230**	**58**																			

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

Date: **Date:**