

## 2012 Undergraduate Curriculum for Information Security ( I )

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
0004312	Modern Chinese History	Exam	2	32	32	0	0		2															School of Marxism
0000011	Physical Education-1	Genera Assessment	1	32	32	0	0		1															Department of Physical Education
0000007	College English (Band One)	Exam	4	64	64	0	0		4															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													School of Marxism
0000012	Physical Education-2	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
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
0000009	College English (Band Three)	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
0000010	College English (Band Four)	Exam	4	64	64	0	0								4									College of Foreign Languages
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	15.5		17.5	2	13		8	0	3		0	0	0		0	
0007077	Freshmen Seminar Course	General Assessment	1	16	16				1															College of Computer Science
0006186	Introduction to Computer Network (Chinese/English)	Exam	3	48	46			2	3															College of Computer Science

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				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
0004752	High Lever Language Programming Design III	Exam	4	64	64				4															College of Computer Science
0005217	C++ Programming Language(Chinese/English)	Exam	3	48	32	16					3													College of Electronic Information and Control Engineering
0007370	Data Structures and Algorithms	Exam	4	64	54	10							4											College of Computer Science Science
0007370	Set Theory and Graph Theory	Exam	2.5	45	42			3					2.5											College of Computer Science
0005686	Digital Logic I	Exam	3	48	48							3												College of Computer Science
0004860	Principles of Computer Organization and Assembly Language II	Exam	4	64	46	12		6							4									College of Computer Science
0007400	Mathematic Foundations of Information Security	Exam	2	36	32			4							2									College of Computer Science
0000345	Database Systems Principles	Exam	3	48	40	8											3							College of Computer Science
0004889	Information and Coding Theory	Exam	2.5	40	36			4									2.5							College of Computer Science
0007358	Principle of Operating System	Exam	3.5	56	35	16		5									3.5							College of Computer Science
0004864	Cryptography I	Exam	2.5	40	32	8											2.5							College of Computer Science
0003487	Information Security Architecture	Exam	2.5	40	32	8												2.5						College of Computer Science
0004859	Computer Architecture II	Exam	2	32	19	8		5										2						College of Computer Science
Discipline Requirements		Sub-total	42.5	689	574	86	0	29	8		3		9.5		6		11.5		4.5		0		0	
0004746	Machine Shop Training A	General Assessment	1	30			30		1															College of Mechanical Engineering &Applied Electronics Technology
0007365	Practice for High Language Programming	General Assessment	1.5	45			45				1.5													College of Computer Science
0006187	Experiments on Basis of Computer Networks	General Assessment	1	24		24					1													College of Applied Sciences
0004964	Physics Laboratory (Engineering)-1	General Assessment	1	24	2		22				1													College of Computer Science
0007384	Cognitive Practice	General Assessment	1	30			30				1													Students' Affairs Office
0003087	Practices of National Defense	General Assessment	1	30			30					1												College of Electronic Information and Control Engineering
0002380	Experiments of Digital Logic	General Assessment	0.5	12		12							0.5											College of Applied Sciences
0004965	Physics Laboratory (Engineering)-2	General Assessment	1.5	36		36						1.5												College of Computer Science
0007376	Experiments of Computer Organization Principle	General Assessment	0.5	12		12									0.5									College of Computer Science
0002761	Data Structure Project I	General Assessment	2	60			60								2									College of Computer Science

Course Number	Course Title	Assessment	Credits	Instruction Hour Allocation					Credits Distribution for Semesters														Responsible Unit	
				Total Hrs	Lec	Lab	Practice	Recitation	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
0007069	Social Practices	General Assessment	2	48			48									2								College of Computer Science
0007373	Principles of Computer Organization Course Design	General Assessment	1.5	45			45									1.5								College of Computer Science
0002556	Design of System Software Project	General Assessment	2	60			60										2							College of Computer Science
0004851	Project of Security Protocols Designing	General Assessment	2	60			60													2				College of Computer Science
0007367	Professional Practice	General Assessment	8	240			240														8			College of Computer Science
0005687	Senior Project	General Assessment	16	480			480																16	College of Computer Science
Practical Requirements		Sub-total	42.5	1236	2	84	1150	0	1		4.5	1	2		2.5	3.5	2		0	2	8		16	
Discipline Electives			10.5	168	168								3		3.5		2		2					
Major Requirements			6.0	96	96												2		2		2			
Major Electives			7.0	112	112												2		3		2			
GEESEM:EM			6.0	96	96												2		2		2			
GEESEM:M			5.0	80	80														2.5		2.5			
General Education Electives			5.0	80	80												1		2		2			
Total for Theoretical Instruction			141.0	2363	2136	86	32	109	23.5		20.5	2	25.5		17.5	0	23.5		18	0	10.5		0	
Total for Practical Instruction			45.0	1311	2	84	1225		1		4.5	1	2		2.5	3.5	2			4	8.5		16	
Innovation Requirements			4.0	96															2		2			
Total			190.0	3770	2138	170	1257	109	24.5		25	3	27.5		20	3.5	25.5		20	4	21		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 Information Security ( II )

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
0006188	Routing And Switching Technology	General Assessment	3	48	24	24							3											College of Computer Science
0004874	Network Security and Defense	General Assessment	2	32	16	16									2									College of Computer Science
0004881	Network design(Self-learning)	General Assessment	2	32	32										2									College of Computer Science
0007379	Basis of Content Security	General Assessment	2	32	24	8									2									College of Computer Science
0004850	Network Security Protocols	General Assessment	2	32	14	16		2									2							College of Computer Science
0004886	Law about Information Security I	General Assessment	2	32	32													2						College of Computer Science
0007368	Principle of Firmware (Chinese/English)	General Assessment	3	48	36	12												3						
Discipline Electives		Sub-total	≥10.5																					
0004923	Information Hiding	General Assessment	2	32	24	8											2							College of Computer Science
0007391	The Design and Analysis of Algorithms	General Assessment	2	32	32												2							College of Computer Science
0003485	Digital Identification and Authentication System	General Assessment	2	32	32													2						College of Computer Science
0007356	Operating System Security	General Assessment	2	32	16	16												2						College of Computer Science
0004885	Information Security Standard	General Assessment	1	16	16													1						College of Computer Science
0004863	Introduction of Trusted Computing	General Assessment	2	32	28			4										2						College of Computer Science
0004892	Application System Security	General Assessment	2	32	16	16														2				College of Computer Science
0004883	The Security Technology of Wireless Networks	General Assessment	1	16	16															1				College of Computer Science
0004852	Firewall Technology I	General Assessment	2	32	16	16														2				College of Computer Science
0004857	Defense of Computer Virus	General Assessment	2	32	16	16														2				College of Computer Science
Major Requirements		Sub-total	≥6																					
0000631	Digital System Design	General Assessment	2	32	16	16											2							College of Computer Science
0007386	Introduction of Software Engineering	General Assessment	2	32	28			4									2							College of Computer Science
0005685	Digital Image Processing	General Assessment	2	32	32												2							College of Computer Science

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				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		
0004848	Windows Programming	General Assessment	2	32	24	8												2					College of Computer Science		
0007399	Performance and Security Testing on Information System	General Assessment	2	32	14	16		2										2					College of Computer Science		
0005698	Software Quality management and Testing	General Assessment	2	32	24	8												2					College of Computer Science		
0004871	Database Security	General Assessment	2	32	16	16												2					College of Computer Science		
0003484	Introduction to Data Mining	General Assessment	2	32	32													2					College of Computer Science		
0005683	Pattern Recognition	General Assessment	2	32	32															2			College of Computer Science		
0007402	Mobile Internet Application Security	General Assessment	2	32	32															2			College of Computer Science		
Major Electives		Sub-total	≥7																						
0007357	Application of O.S. secure object	General Assessment	2	60			60											2					College of Computer Science		
0007355	Project of Development of UEFI BIOS	General Assessment	2	60			60												2				College of Computer Science		
0007393	Network Security Configuration Practice	General Assessment	0.5	15			15													0.5					
0007403	Application Security Testing Practice	General Assessment	0.5	15			15													0.5			College of Computer Science		
Practical Electives			≥2																						

Vice-Director:

Vice-President:

Date:

Date: