

2012 Undergraduate Curriculum for Software Engineering (I)

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		
0004311	Ethical Conduct and Fundamentals of Law	Exam	3	48	32		16			3													School of Marxism		
0002784	Fundamentals of National Defense	Exam	2	32	32					2													Students' Affairs Office		
0001903	Calculus (Engineering)-1	Exam	5.5	99	64			35	5.5														College of Applied Sciences		
0000007	College English (Band One)	Exam	4	64	64				4														College of Foreign Languages		
0000011	Physical Education-1	General Assessment	1	32	32				1														Department of Physical Education		
0004312	Modern Chinese History	Exam	2	32	32	32			2														School of Marxism		
0000008	College English (Band Two)	Exam	4	64	64	64				4													School of Foreign Languages		
0000012	Physical Education-2	General Assessment	1	32	32					1													Department of Physical Education		
0000072	University Physics I-1	Exam	4	64	64					4													College of Applied Sciences		
0003330	Calculus (Engineering)-2	Exam	5.5	99	64			35		5.5													College of Applied Sciences		
0001908	Linear Algebra (Engineering)	Exam	3	54	48			6		3													College of Applied Sciences		
0003333	Probability and Statistics (Engineering)	Exam	3	54	50			4				3											College of Applied Sciences		
0004361	Introduction to Philosophy	Exam	3	48	48							3											School of Marxism		
0000009	College English (Band Three)	Exam	4	64	64							4											College of Foreign Languages		
0000013	Physical Education-3	General Assessment	1	32	32							1											Department of Physical Education		
0000073	University Physics I-2	Exam	4	64	64							4											College of Applied Sciences		
0006457	Fundamentals of Chinese Sociology	Exam	4	64	64									4									School of Marxism		
0000009	College English (Band Four)	Exam	4	64	64									4									College of Foreign Languages		
0000014	Physical Education-4	General Assessment	1	32	32									1									Department of Physical Education		
University Requirements		Sub-total	59	1042	946	96	16	80	12.5		20.5	2	15		9										
0007078	Freshmen Seminar Course — Conception of Software Engineering	General Assessment	1	16					1														School of Software Engineering		
0004758	Programming Fundamental (C)	General Assessment	3	48	30	18			3														School of Software Engineering		

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									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		
0007442	Object-Oriented Programming and Design (C++)	General Assessment	2	32	28	4				2													School of Software Engineering		
0002358	Digital Logic Circuits I	General Assessment	3	48	48						3												School of Software Engineering		
0003173	Discrete Mathematics II	Exam	3	48	48						3												School of Software Engineering		
0006207	Data Structures and Algorithms I	Exam	4	64	44	20					4												School of Software Engineering		
0006567	Computer Organization	Exam	3	48	40	8							3										School of Software Engineering		
0007443	Database Principle	General Assessment	4	64	48	16							4										School of Software Engineering		
0007444	Operating System	Exam	4	64	48	16							4										School of Software Engineering		
0000207	Computer Networks	Exam	3	48	32	16							3										School of Software Engineering		
0003338	Programming in JAVA (Chinese/English)	General Assessment	2	32	16	16							2										School of Software Engineering		
0004575	Introduction to Software Engineering (Chinese/English)	General Assessment	2	32	16	16									2								School of Software Engineering		
0004586	Software Architecture (Chinese/English)	General Assessment	3	48	38	10											3						School of Software Engineering		
0004581	Software Process Quality Control	General Assessment	2	32	32												2						School of Software Engineering		
0004577	Software Test	General Assessment	2	32	26	6											2						School of Software Engineering		
Discipline Requirements		Sub-total	41	656	494	146				4		2		10		16		2		7					
0003087	Practices of National Defense	General Assessment	1	30			30				1												Students' Affairs Office		
0004746	Machine Shop Training A	General Assessment	1	30			30		1														College of Mechanical Engineering & Applied Electronics Technology		
0007155	Cognitive Practice	General Assessment	1	30			30		1														School of Software Engineering		
0006384	Programming Design Course Project	General Assessment	2	60			60		2														School of Software Engineering		
0004964	Physics Laboratory (Engineering)-1	General Assessment	1	24	2	22				1													College of Applied Sciences		
0007445	Object-Oriented Programming Course (C++) Design	General Assessment	3	90			90				3												School of Software Engineering		
0004965	Physics Laboratory (Engineering)-2	General Assessment	1.5	36		36					1.5												College of Applied Sciences		
0009048	Data Structure Course Design	General Assessment	2	60			60				2												School of Software Engineering		
0007760	.NET Programming (Self-learning)	General Assessment	1.5	45			45				1.5												School of Software Engineering		
0007069	Social Practices	General Assessment	2	48			48								2								School of Marxism		

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				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		
0007448	Java Course Design	General Assessment	3	90			90								3								School of Software Engineering		
0007449	Networking Programming I	General Assessment	2	48	24	24										2							School of Software Engineering		
0007452	Integrated Development Course Design	General Assessment	2	60			60									2							School of Software Engineering		
0007761	XML Application Programming(Self-learning)	General Assessment	2	48	48												2						School of Software Engineering		
0004578	Software Test Course Design	General Assessment	2	60			60										2						School of Software Engineering		
0007453	Software Engineering Integrated Practice	General Assessment	3	90			90												3				School of Software Engineering		
0007454	Professional Practice	General Assessment	5	150			150													5			School of Software Engineering		
0006456	Senior Project	General Assessment	16	480			480															16	School of Software Engineering		
Practical Requirements		Sub-total	51	1479	74	130	1275		4		1	4	5			5	4		4	3	5		16		
Major Requirements			14	224	224											10		4							
Major Electives			4	64	64											2				7					
GEESEM:EM			6	96	96											2		4							
General Education Electives			8	128	128											2		2		4					
Electives		Sub-total	32	512	512											16		10		6					
Total for Theoretical Instruction			132	2210	1952	242	16	80	16.5		22.5	2	25		25		18		17		6				
Discipline Electives			4	108												2		2							
Total for Practical Instruction			55	1587					4	0	1	4	5		0	5	6		4	3	7		16		
Innovation Requirements			4																						
Total			191	3797	1952	242	16	80	20.5	0	23.5	6	30	0	25	5	24	0	23	3	15		16		

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

2012 Undergraduate Curriculum for Software Engineering (II)

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		
0007455	Development of Mobile Applications	General Assessment	2	32	20	12									2								School of Software Engineering		
0007459	Web Middleware Technology	General Assessment	3	48	34	14									3								School of Software Engineering		
0007833	Principles of Compiling	General Assessment	3	48	40	8									3								School of Software Engineering		
0003677	Introduction to Information Security (Chinese/English)	General Assessment	2	32	32										2								School of Software Engineering		
0007461	Software Requirement Engineering and UML	General Assessment	2	32	24		8										2						School of Software Engineering		
0003781	Software Project Management	General Assessment	2	32	32												2						School of Software Engineering		
Major Requirements		Sub-total	14	224	182	34	8								10		4								
0000978	Computer Graphics I	General Assessment	2	32	24	8									2								School of Software Engineering		
0007462	Multimedia Technology	General Assessment	2	32	32										2								School of Software Engineering		
0007469	Electronic Service Engineering and Application	General Assessment	2	32	20	12														2			School of Software Engineering		
0009027	Digital Image Processing	General Assessment	2	32	24	8														2			School of Software Engineering		
0007463	Game Developing with OpenGL	General Assessment	2	32	10	22														2					
Major Electives		Sub-total	10	160	110										4					6					
0007745	Course Design of Computer Graphics II	General Assessment	1	30			30								1								School of Software Engineering		
0007757	Multimedia Technology Course Design	General Assessment	2	60			60								2								School of Software Engineering		
0007758	Network Engineering and Management Course Design	General Assessment	2	48		48														2			School of Software Engineering		
Discipline Electives		Sub-total	5	138		48	90								3					2					

Vice-Director:

Vice-President:

Date:

Date: