

Teaching Program for Software Engineering

(2014)

1. Training Goal: The major of Software Engineering aims at training professionals who possess the proper knowledge and integrated skills with Software Engineering such as modern economy, management theory and information technology, and have the basic skills and methods in computer network technology, information technology and business technology, and can engage in Software Engineering planning, analysis, design, development, management and evaluation, and can use electronic information technology to engage in business, trade and marketing management or research, teaching and other application.

2. School Year: 4 years full-time

3. Degree Awarded: Bachelor of Management

4. Credit Requirements: 159 credits(not include Extra credit). 48 credits for general compulsory courses, 9 credits for general elective courses, 45 credits for discipline basic course, 32 credits for professional required courses, 10 credits for professional limited selection courses, 15 credits for comprehensive application courses. Any more, students also need to get 10 quality development for extra-curricular credits, and to read the “health education of College students”.

5. Requirements for Students from Hong Kong, Macao and Taiwan

According to the Education Department of Guangdong Province, the students from Hong Kong, Macao and Taiwan need not take courses from the sections of “Education of National Defense” and “Theory of Ideology and Politics”. The students should strictly follow the teaching program, taking courses of the other sections.

6. Requirements for Overseas Students

According to Ministry of Education and Education Department of Guangdong Province, overseas students need not take courses from the section “Education of National Defense”. Oversea students of economic disciplines should take courses of political theory, while the students of other disciplines could apply to be excused from it. The overseas students who receive education with record of formal schooling should take courses “Chinese” and “A Survey of China”. Other courses should be taken strictly according to the teaching program.

7. Teaching Schedule

Table 1: The Reference Table of Software Engineering to Earn Credits

Course Type	Course Nature	Due Credit	Due Credits for Each Term								Total
			1	2	3	4	5	6	7	8	
Public Courses	compulsory	48	11	12	6	8	4	7	0	0	48
	Limit	9	0	1	2	0	2	2	2	0	9
Discipline-Based Courses	compulsory	45	14	7	16	8	0	0	0	0	45
Specialized Courses	compulsory	32	0	4	0	8	13	7	0	0	32
	Limit	9	0	0	0	0	3	2	4	0	9
Comprehensive Application Courses	compulsory	15	0	1	0	2	2	2	3	5	15
Total		158	25	25	24	26	24	20	9	5	158

Table 2: The Teaching Program Schedule of Software Engineering

course category	course nature	course type	course code	course name	Credits (c)	Weeks (w)	Hours (h)	hours allocation			Term / weeks / hours								Exam	
											1	2	3	4	5	6	7	8		
								teach	Exp.	practice	15	16	16	16	16	16	16	16		15
General course	Obligatory 46c	national defense education	140471	Military theory(training)	1.0	15	15	15	0	0	1								☆	
			140193	Marx's basic principle	3.0	15	45	45	0	0	3									★
			140464	Ideological and moral cultivation and legal basis	4.0	16	64	48	0	16		4								★
			140222	Outline of modern history of China	2.0	16	32	32	0	0				2						★
			140474	Introduction to the theoretical system of Mao Zedong and socialism with Chinese characteristics(1)	4.0	16	64	48	0	16				4						★
			140472	Introduction to the theoretical system of Mao Zedong and socialism with Chinese characteristics(2)	2.0	16	32	32	0	0					2					★
			140242	Situation and policy	2.0	16	16	16	0	0							1			☆

			science															
			Digital electronic technology	5.0	16	80	58	22	0		+3							★
		101044	Linear algebra	4.0	16	64	64	0	0			4						★
		110094	Discrete mathematics	4.0	16	64	64	0	0			+4						★
		110104	Data structure	4.0	16	64	54	10	0			+4						★
		119704	Computer composition principle and assembly language	4.0	16	64	44	20	0			4						★
		101084	Probability theory and mathematical statistics	4.0	16	64	64	0	0				4					★
		110114	Operating system	4.0	16	64	54	10	0				+4					★
	Required 32	Basic course	110154	Object oriented programming	4.0	16	64	42	22	0		+4						★
110124			Database principle	4.0	16	64	54	10	0				4					★
110174			Software engineering	4.0	16	64	48	16	0				+4					★
110113			Computer network	3.0	16	48	40	8	0						+3			

			116183	Software design	3.0	16	48	28	20	0					3			★
			119644	Software component and Middleware Technology	4.0	16	64	34	30	0					+4			★
			111014	System analysis design and UML language	4.0	16	64	48	16	0					+4			★
			112153	Software Testing Technology	3.0	16	48	30	18	0					+3			★
Specialized course	Limited selection9	IT audit	111022	Professional English (Software engineering)	2.0	16	32	32	0	0					+2			☆
			119233	IT risk	3.0	16	48	48	0	0					+3			☆
			119653	Application of large database system	3.0	16	48	27	21	0					+3			☆
			119243	Information system audit	3.0	16	48	48	0	0					+3			★
			110233	Software architecture	3.0	16	48	32	18	0					3			☆
			112392	Software technology	2.0	16	32	32	0	0						+2		

			112392	Software technology project	2.0	16	32	32	0	0							+2	☆	
			119212	Trusted computing	2.0	16	32	24	8	0						2		☆	
Subtotal	Required 15	Application	111072	Programming course design	2.0	8	32	10	22	0			4					☆	
			111082	Software engineering course design	2.0	8	32	10	22	0				4				☆	
			110222	Software project management	2.0	8	32	10	22	0					4			☆	
			119871	Social survey	1.0	3	0	0	0	0		0							☆
			112333	Comprehensive design of application software system	3.0	6	48	0	48	0							8		☆
			116032	Graduation practice	2.0	10	0	0	0	0								0	☆
			116083	Graduation design	3.0	5	0	0	0	0							0	☆	

Note:

★: Examination

☆: Investigation

Program Chief: Wang Jue
Dean: He Minwei

Vice Dean: Wu wenxing