

The Teaching Program of Computer Science and Technology (Experimental Zone)

(2014,2015)

1. Training Goal: The major of computer science and technology(Experimental Zone) aims at training professionals with spirit of innovation and team-spirit, who possess the proper knowledge and integrated skills with computer science and technology basic theory, basic skills and methods, and necessary basic theory of Economics. After graduation, students could become excellent IT talents with strong competition who could work on design, development and application of computer software system and smart calculation in the IT field, especially in the fields of Economics and Business.

2. School Year: 4 years full-time

3. Degree Awarded: Bachelor of Arts

4. Credit Requirements: 160 credits(not include Extra credit). 46 credits for general compulsory courses, 9 credits for general elective courses, 44 credits for discipline basic course, 27credits for professional required courses, 10 credits for professional limited selection courses, 24 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 an Education Department of Guangdong Province, oversea 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 oversea 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 Computer Science and Technology major Credits

Course Type	Course Nature	Due Credit	Due Credits for Each Term								Total
			1	2	3	4	5	6	7	8	
Public Courses	compulsory	46	11.5	12	6	7	5	4.5	0	0	46
	Limit	9	0	1	1	1	2	2	2	0	9
Discipline-Based Courses	compulsory	44	13	11	12	8	0	0	0	0	44
Specialized Courses	compulsory	27	0	0	6	4	12	5	0	0	27
	Limit	10	0	0	0	0	0	6	4	0	10
Comprehensive Application Courses	compulsory	24	0	3	2	3	2	3	4	7	24
Total		160	24.5	27	27	23	21	20.5	10	7	160

				and Planning for College Students																
			130462	PE II	2.0	16	32	32	0	0		2							☆	
			130472	PE III	2.0	16	32	32	0	0					2				☆	
			130482	PE IV	2.0	16	32	32	0	0						2			☆	
			400025	Career Guidance	0.5	8	8	8	0	0						1			☆	
		小 计			46		709	646		63	12	12	6	7	5	4				
Limit	Pass time course		990032	Pass time course I	1.0	16	16	16	0	0		1							☆	
			990062	Pass time course II	1.0	16	16	16	0	0			1							☆
			990072	Pass time course III	1.0	16	16	16	0	0				1						☆
			000001	The humanities courses	2.0	16	32	32	0	0						2				☆
			990042	Social science courses	2.0	16	32	32	0	0							2			☆
			990052	Art courses	2.0	16	32	32	0	0								2		☆
		小 计			9		144	144				1	1	1	2	2	2			
			100066	Advanced Mathematics I	6.0	15	90	90	0	0	6								★	
			110084	The program design	4.0	16	60	40	20	0	4								☆	
		Discipli	110923	The	3.0	16	48	32	16	0		3							☆	

Discipline-Based Courses	Computory	ne-Based Courses		composition and system programming of the computer I																		
			119673	Introduction to computer science	30	15	45	31	14	0	3										☆	
			100074	Advanced Mathematics I	4.0	16	64	64	0	0		4										★
			110094	Discrete mathematics	4.0	16	64	64	0	0		4										☆
			110104	The data structure	4.0	16	64	50	14	0			4									☆
			112584	The composition and system programming of the computer II	4.0	16	64	40	24	0			4									☆
			101044	Linear algebra	4.0	16	64	64	0	0			4									★
			105014	Probability and mathematical statistics	4.0	16	64	64	0	0				4								★
			110114	The operating system	4.0	16	64	54	10	0				4								☆
	Subtotal					44		691	593	98		13	11	12	8							
Limits	Discipline-Based Course	113692	collection training in summer vacation I	2.0	2	32	0	32	0				16							☆		

		s	113702	collection training in summer vacation II	2.0	2	32	0	32	0						16		☆		
	Subtotal				4		64	0	64	0			16		16					
Specialized Courses	Compulsory	Discipline-Based Courses	110153	Object-oriented programming	3.0	16	48	32	16	0			3					☆		
			061103	General Economic	3.0	16	48	48	0	0			3						☆	
			110304	Computer Network	4.0	16	64	52	12	0				4					☆	
			110184	Algorithm Analysis and Design	4.0	16	64	40	24	0					4				☆	
			110202	Analysis of Numerical Value	2.0	16	32	32	0	0					2				☆	
			110123	Database Principles	3.0	16	48	36	12	0					3				☆	
			119133	Managerial Operations	3.0	16	48	36	12	0					3				☆	
			110172	Software Program	2.0	8	32	28	4	0						4				☆
			110243	An Introduction to Artificial Intelligence	3.0	16	48	36	12	0							3			☆
			小 计					27		432	340	92			6	4	12	7		

			113372	Game Theory	2.0	8	32	24	8	0						4		☆
		Business intelligence direction	119692	Computer English	2.0	8	32	32	0	0						4		☆
			113042	Electronic Commerce	2.0	8	32	28	4	0						4		☆
			110972	Large Database Applications	2.0	8	32	16	16	0						4		☆
			113552	Mobile Computation	2.0	8	32	20	12	0						4		☆
			110931	Computer Pioneering I	1.0	4	16	16	0	0						4		☆
			119432	Information Security	2.0	8	32	24	8	0						4		☆
			113242	Network Programming	2.0	8	32	16	16	0						4		☆
			110982	Application of Financial and Commercial Software	2.0	8	32	12	20	0						4		☆
			113302	Modern Development Tool	2.0	8	32	12	20	0						4		☆

	zed course	ment direction	110982	Application of Financial and Commerical Software	2.0	8	32	12	20	0						4		☆			
			110931	Computer Pioneering I	1.0	4	16	16	0	0							4		☆		
			113572	Colud Computing	2.0	8	32	20	12	0								4		☆	
			110941	Computer Pioneering II	1.0	4	16	16	0	0								4		☆	
			119642	Software Component and Middleware Technology	2.0	8	32	16	16	0									4		☆
			116182	Software Design Pattern	2.0	8	32	16	16	0									4		☆
			119272	Software Engineering Economics	2.0	8	32	28	4	0									4		☆
			Subtotal					10		160	100	60							32	20	
Compre hensive Applicat ion Courses	Compu lsory	Applica tion Course s	113402	Programing Design Practice	2.0	1	32	0	32	0		32						☆			
			119871	Social Survey	1.0	3	0	0	0	0		0							☆		
			113652	Data Structure	2.0	1	32	0	32	0			32						☆		

			Course Design														
		119441	Industry Research	1.0	2	0	0	0	0			0					☆
		113232	Network Planning and Management	2.0	2	32	0	32	0			16					☆
		113462	Database curriculum design	2.0	1	32	0	32	0				32				☆
		112462	Software Engineering Course Design	2.0	8	32	0	32	0					4			☆
		116071	Academic Papers	1.0	0	0	0	0	0					0			☆
		111152	Professional comprehensive practice I	2.0	8	32	0	32	0						4		☆
		111142	Professional comprehensive practice II	2.0	8	32	0	32	0						4		☆
		116034	Graduation Practice	4.0	10	0	0	0	0							0	☆
		116083	Graduation design	3.0	5	0	0	0	0							0	☆

	Subtotal	24		224		224			32	32	16	32	4	8		
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Note:

★: Examination

☆: Investigation