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, 27 credits 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**

Courses Trees	Course	Due			Due C	redits f	for Eacl	n Term			Tetal
Course Type	Nature	Credit	1	2	3	4	5	6	7	8	Total
Dublic Courses	compulsory	46	11.5	12	6	7	5	4.5	0	0	46
Public Courses	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	compulsory	27	0	0	6	4	12	5	0	0	27
Courses	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

Table 1: The Reference Table of Computer Science and Technology major Credits

								Alloc	pation of	Hours		Allc	cation	of Eacl	n Term	by Wee	eks	_	
Course	Course	Course	Course		Credi	Weeks	Total			110015	1	2	3	4	5	6	7	8	Way of
Category	Nature	Туре	Identifier	Course Name	t	for Studying	Credi t	Lectu ring	Exper iment	Practic e	15	16	16	16	16	16	16	15	Assessmen t
		EOND	140471	Military Theory (military training included)	1.0	15	15	15	0	0	1								☆
			140193	Fundamental Principles of Marxism	3.0	15	45	30	0	15	3								*
			140464	Moral Integrity and Fundamentals of Law	4.0	16	32	32	0					2					*
Public Courses	Compu lsory		140222	An Outline of Chinese Modern History	2.0	16	32	32	0	0				4					*
		TOIAP	140473	Introduction to Mao Zedong Thoughts and Socialist Theoretical System With Chinese Characteristics I	3.0	16	48	32	0	16			3	3					*

Table 2: The Teaching Program Schedule of computer science and technology major

	140483	Introduction to Mao Zedong Thoughts and Socialist Theoretical System With Chinese Characteristics II	3.0	16	48	32	0	16					3			*
	140242	Situation ad Policy	2.0	16	16	16	0	0						1		\$
	121542	College Chinese	2.0	16	32	32	0	0		2						*
	121552	Applied Writing	2.0	16	32	32	0	0				2				*
Langua	090834	The university English IIIA	4.0	15	60	60	0	0	4							*
Skills	090844	The university English IVA	4.0	16	64	64	0	0		4						*
	180412	Academic English	2.0	16	32	32	0	0				2				*
	180264	The english-chinese/ chinese-english translation	4.0	16	64	64	0	0			4					*
	130452	PE I	2.0	15	30	30	0	0	2							\$
Educati on of Health	340031	Education of Psychological Health for College Students	1.0	15	15	15	0	0	1							¥
	400015	Career Development	0.5	8	8	8	0	0	1							X

			and Planning for College Students														
		130462	PE II	2.0	16	32	32	0	0		2						$\stackrel{\wedge}{\sim}$
		130472	PE III	2.0	16	32	32	0	0					2			$\stackrel{\wedge}{\sim}$
		130482	PE IV	2.0	16	32	32	0	0						2		${\leftrightarrow}$
		400025	Career Guidance	0.5	8	8	8	0	0						1		${\leftrightarrow}$
		小计		46		709	646		63	12	12	6	7	5	4		
		990032	Pass time course I	1.0	16	16	16	0	0		1						${\leftrightarrow}$
		990062	Pass time course II	1.0	16	16	16	0	0			1					${\leftrightarrow}$
Limit	Pass time	990072	Pass time course III	1.0	16	16	16	0	0				1				${\leftrightarrow}$
Linint	course	000001	The humanities courses	2.0	16	32	32	0	0					2			\overleftrightarrow
		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						\$

	Commu	ne-Bas		composition and													
Disciplin	lsory	Course		system													
e-Based		s		programming of													
Courses				the computer I													
			119673	Introduction to computer science	30	15	45	31	14	0	3						${\sim}$
			100074	Advanced Mathematics I	4.0	16	64	64	0	0		4					*
			110094	Discrete mathematics	4.0	16	64	64	0	0		4					${\leftarrow}$
			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			${\simeq}$
			Subtotal		44		691	593	98		13	11	12	8			
	Limits	Discipli ne-Bas ed 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		
			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 Neywork	4.0	16	64	52	12	0			4				\$
				Algorithm													
			110184	Analysis and	4.0	16	64	40	24	0				4			\$
				Design													
				Analysis of													
		Discipli	110202	Numerical	2.0	16	32	32	0	0				2			
Specializ	Compu	ne-Bas		Value													
ed Courses	lsory	Course	110123	Database	3.0	16	48	36	12	0				3			51/2
Courses		S	110125	Principles	5.0	10	10	50	12	0				5			~
			119133	Managerial	3.0	16	48	36	12	0				3			51/2
			117155	Operations	5.0	10	10	50	12	0				5			~
			110172	Software	2.0	8	32	28	4	0					4		5.2
			110172	Program	2.0		52								-		~
				An Introduction													
			110243	to Artificial	3.0	16	48	36	12	0					3		${\simeq}$
				Intelligence													
				小计	27		432	340	92			6	4	12	7		

			Network											
		113242	Programming	2.0	8	32	16	16	0			4		\$
		113552	Mobile Computation	2.0	8	32	20	12	0			4		\overleftrightarrow
		110982	Application of Financial and Commerical Software	2.0	8	32	12	20	0			4		*
		113312	Financial Software Development	2.0	8	32	8	24	0			4		\$
		110931	Computer Pioneering I	1.0	4	16	16	0	0			4		\$
	Directi	110972	Large Database Applications	2.0	8	32	16	16	0			4		${\leftrightarrow}$
Limits	econom	119692	Computer English	2.0	8	32	32	0	0			4		${\leftrightarrow}$
Linits	calculat	119432	Information Security	2.0	8	32	24	8	0			4		$\stackrel{\wedge}{\sim}$
		113362	Modeling and Simulation of Complex Systems	2.0	8	32	24	8	0				4	*
		110941	Computer Pioneering II	1.0	4	16	16	0	0				4	\$
		110292	Data Warehouse and Data Mining Technology	2.0	8	32	22	10	0				4	*
		119422	Data Analysis of Investment and Portfolio Management	2.0	8	32	24	8	0				4	*

		113372	Game Theory	2.0	8	32	24	8	0				4	\$
		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		☆
	Busines s	110931	Computer Pioneering I	1.0	4	16	16	0	0			4		*
	ence directio	119432	Information Security	20	8	32	24	8	0			4		¥
	n	113242	Network Programming	2.0	8	32	16	16	0			4		*
		110982	Application of F inancial and Co mmerical Softw are	2.0	8	32	12	20	0			4		X
		113302	Modern Development Tool	2.0	8	32	12	20	0				4	\$

		110292	Data Warehouse and Data Mining Technology	2.0	8	32	22	10	0				4	Å
		110941	Computer Pioneering I	1.0	4	16	16	0	0				4	Å
		110992	Business Intelligence and Business Data Analysis	2.0	8	32	20	12	0				4	\$
		113392	Auction and Algorithm	2.0	8	32	24	8	0				4	${\bigtriangledown}$
		113312	Financial software development	2.0	8	32	8	24	0			4		Å
		110972	Large Database Applications	2.0	8	32	16	16	0			4		
		113552	Mobile Computation	2.0	8	32	20	12	0			4		
		119432	Information Security	2.0	8	32	24	8	0			4		Å
	Financi al	119692	Computer English	2.0	8	32	32	0	0			4		\$
speciali	softwar e develop	113242	Network Programming	2.0	8	32	16	16	0			4		\$

	zed course	ment directio n	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	${\leftrightarrow}$
			119642	Software Component and Middleware Technology	2.0	8	32	16	16	0					4	${\leftrightarrow}$
			116182	Software Design Pattern	2.0	8	32	16	16	0					4	${\leftrightarrow}$
			119272	Software Engineeing Economics	2.0	8	32	28	4	0					4	$\stackrel{\wedge}{\rightarrow}$
			Subtotal		10		160	100	60					32	20	
Compre hensive	0	Applica	113402	Programing Design Practice	2.0	1	32	0	32	0	32					\$
Applicat ion	lsory	tion Course	119871	Social Survey	1.0	3	0	0	0	0	0					\$
Courses		S	113652	Data Structure	2.0	1	32	0	32	0		32				\overleftrightarrow

		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 4 8

Note:

 \bigstar : Examination

 \therefore : Investigation