Undergraduate teaching program of Information and Computing Science

1. Education objective

The objective of this Specialty is to equip students with good knowledge of math as well as science and technology theory foundation, modern advanced information technology and calculation methods, the method of design and development of the mobile platform application system. Students who graduate f will be good at algorithm design, analysis, and programming. They can do data mining job in various fields such as business, science and technology, information industry and economy department and become applied talents in smartphones and tablets and other mobile platform application software design and development.

2. Standard Schooling Years

Four years of undergraduate course

3. Degree Conferred

Bachelor of Science

4. Credit requirement

Students should take 156 credits (excluding extracurricular credits. Among the total 156 credits, 48 credits should be required courses, 9 credits should be general electives courses, 41 credits should be discipline basic course, 11 credits should be professional compulsory courses, 11 credits should be professional limit courses, while the other 11 credits should be the integrated use of class. At the same time, students must also obtain 10 diathesis developing extracurricular credits, and should study the "college student health education".

5. Teaching plan for students from Hong Kong, Macao and Taiwan

In accordance with relevant provisions of the education department, students from Hong Kong, Macao and Taiwan do not need to study "national defense education" and "ideological and political theory course" courses. Meanwhile, they should take the rest of the courses, study class hours and get credits, which are required in major teaching plan.

6. Teaching plan for foreign students

According to the regulations of the Education Ministry, foreign students do not need to study "the national defense education" courses; foreign students whose major are Political philosophy, politics and economics class should study Political theory course as compulsory course, while foreign students whose major are not those mentioned above do not need to take Political Theory Course. Foreign students should study "Chinese" and "the general situation of China" as a compulsory course to accept degree education. The rest of the course should be strictly in accordance with the term prescribed by the teaching plan, class hours and credits required to study.

7. Teaching schedule

Table 1: Curriculum Credits for each semester

Course	Course	Graduation Credit	Credit Required for each semester												
Category	Character	Required	1	2	3	4	5	6	7	8	Total				
Elective	Compulsory	60. 0	15. 5	16. 0	10.0	7. 0	7. 0	4. 5	0.0	0.0	60.0				
Elective	Elective	9. 0	0.0	1. 0	1. 0	1. 0	2. 0	2. 0	2. 0	0.0	9. 0				
Disciplinary Basic Courses	Compulsory	41. 0	12. 0	9. 0	9. 0	4. 0	7. 0	0.0	0.0	0.0	41.0				
Specialty	Compulsory	36. 0	1.0	0.0	6. 0	4. 0	8. 0	10.0	7. 0	0.0	36. 0				
Courses	Elective	11. 0	0.0	0.0	0.0	0.0	3. 0	3. 0	5. 0	0.0	11.0				

Comprehensive application courses	Compulsory	11. 0	0.0	1. 0	0.0	1. 0	0.0	2. 0	0.0	7. 0	11.0
Tota	al	168. 0	28. 5	27. 0	26. 0	17. 0	27. 0	21. 5	14. 0	7. 0	168. 0

Table 2: Teaching Schedule

Course Categor		Course	Course	Course Name	Course	Weeks for	Total	Alloca	tion of H	Iours		Allocation of Each Term by Weeks								
у	Nature	Type	Identifier	Course I valle	Category	Studyin g	Credit	Lecturing	Experi ment	Practice	1	2	3	4	5	6	7	8	-Assessme nt	
		EOND	140471	Military Theory (military training included)				15	0	0	1								☆	
			140193	Fundamental Principles of Marxism	3	15	45	30	0	15	3								*	
			140464	Moral Integrity and Fundamentals of Law	4	16	64	48	0	16		4							*	
			140222	An Outline of Chinese Modern History	2	16	32	32	0	0			2						*	
		TOIAP	140473	Introduction to Mao Zedong Thoughts and Socialist Theoretical System With Chinese Characteristics I	3	16	48	32	0	16				3					*	
Public Courses	Compul sory		140483	Introduction to Mao Zedong Thoughts and Socialist Theoretical System With Chinese Characteristics II	3	16	48	32	0	16					3				*	
			140242	Situation ad Policy	2	16	32	32	0	0						2			☆	
		Langua ge and	121542	College Chinese	2	16	32	32	0	0		2							*	
		Skills I	121552	Applied Writing	2	16	32	32	0	0				2					*	
		Langua	90834	College English(3a)	4	15	60	60	0	0	4								*	
		ge and	90864	College English(2b)	4	15	60	60	0	0	4								*	
		Skills	90844	College English(4a)	4	16	64	64	0	0		4							*	
		II	90874	College English(3b)	4	16	64	64	0	0		4							*	

		90884	College English(4b)	4	16	64	64	0	0			4					
		180264	C-E/E-C Translation	4	16	64	64	0	0			4					
		180412	Academic English	2	16	32	32	0	0				2				
		400015	Career Development and Planning for College Students	0.5	8	8	8	0	0	1							
		340031	Education of Psychological Health for College Students	1	15	15	15	0	0	1							
	Educati	130452	PE I	2	15	30	30	0	0	2							
	on of	130462	PE II	2	16	32	32	0	0		2						
	Health	130472	PE III	2	16	32	32	0	0					2			
		400002	Foundation of Entrepreneurship	2	16	32	32	0	0					2			
		130482	PE IV	2	16	32	32	0	0						2		
		400025	Careers Guidance	0.5	8	8	8	0	0						1		
		Sub	Total	48		757	694		63	12	12	6	7	7	5		
		990032	Pass time course I	1	16	16	16	0	0		1						
	NI.41	990062	Pass time course II	1	16	16	16	0	0			1					
limit	Natural Science	990072	Pass time course III	1	16	16	16	0	0				1				
11111111	Series	000001	The humanities courses	2	16	32	32	0	0					2			
	Belles	990042	Social science courses	2	16	32	32	0	0						2		
		990052	Art courses	2	16	32	32	0	0							2	
Sub Total				9		144	144				1	1	1	2	2	2	

		1						1									 	
		_	101053	space analytic geometry	3	15	45	45	0	0	3							*
			100505	mathematical analysis I	5	15	75	75	0	0	5							*
			106044	advanced mathematics I	4	15	60	60	0	0	4							*
			100526	mathematical analysis II	6	16	96	96	0	0		6						*
	C	D' '. 1'	106053	advanced mathematics II	3	16	48	48	0	0		3						*
		Disciplinar y Basic	100515	mathematical analysis III	5	16	80	80	0	0			5					*
Discipli nary Basic	ory	Courses	100484	High-Level Language Programming I	4	16	64	40	24	0			4					*
Courses			109114	Probability and Statistics	4	16	64	64	0	0				4				*
Courses			101064	Ordinary Differential Equations	4	16	64	64	0	0					4			*
			105023	mathematical statistics	3	16	48	48	0	0					3			*
	subtotal						644	620	24		12	9	9	4	7			
			102441	Introduction to the Specialty	1	8	16	16	0	0	2							$\stackrel{\wedge}{\Rightarrow}$
			061083	microeconomics	3	16	48	48	0	0			3					*
			109533	Discrete mathematics and its applications	3	16	48	48	0	0			3					*
Specialt		Basic	102174	High-Level Language Programming II	4	16	64	40	24	0				4				*
У	puls	Courses	109544	Business data analysis	4	16	64	40	24	0					4			*
Courses	ory		102184	data structures and algorithm	4	16	64	40	24	0					4			*
		-	109513	numerical calculation	3	16	48	38	10	0						3		*
		-	101103	database	3	16	48	36	12	0						3		*
			109554	mobile application developm ent	4	16	64	40	24	0						4		*

		109564	enterprise application development	4	16	64	40	24	0						4	*
		100093	Operational Research	3	16	48	30	18	0						3	*
		sul	ototal	36		576	416	160		2	6	4	8	10	7	
		109022	mathematics experiment	2	16	32	12	20	0			2				Z
		100461	Special English for Information and Computing science	1	8	16	16	0	0				2			7
		103113	development tools	3	16	48	30	18	0				3			7
	Specialty-	109573	Information theory	3	16	48	48	0	0				3			7
		103133	Data mining	3	16	48	48	0	0					3		
		105053	complex variable functions	3	16	48	48	0	0					3		,
Limi		101113	Mathematical modeling	3	16	48	32	16	0					3		,
ted		61093	macroeconomics	3	16	48	48	0	0					3		
-lecti	Courses	109593	Business data prediction	3	16	48	48	0	0					3		
ve		102193	optimization method	3	16	48	48	0	0					3		,
		102213	Selected Readings of Mathematical analysis	3	16	48	48	0	0					3		,
	_	100183	Selected Readings of Advanced Mathematics I	3	16	48	48	0	0					3		,
		109612	data warehouse	2	16	32	32	0	0						2	
		109622	Business Mathematics Modeling	2	16	32	32	0	0						2	
		109632	Commercial data mining and	2	16	32	16	16	0						2	

				analysis tools													
			109642	software engineering introduction	2	16	32	32	0	0					2		☆
			102223	Selected Readings of Advanced Algebra	3	16	48	48	0	0					3		☆
			100193	Selected Readings of Advanced Mathematics II	3	16	48	48	0	0					3		☆
			103173	Big Data Analysis	3	16	48	48	0	0					3		☆
			103183	multivariate statistical analys is and R language modeling	3	16	48	36	12	0					3		☆
			subtotal				176	130	46				3	3	5		
			109251	Social survey I	1.0	3	0	0	0	0	0						☆
compre	C		109261	Social survey II	1.0	3	0	0	0	0		0					☆
hensive	Com puls	Application	109051	Annual paper	1.0	3	0	0	0	0				0			☆
applicat	ory	course	109141	Relevant industry research	1.0	2	0	0	0	0				0			☆
ion	or y		107034	Graduation practice	4.0	10	0	0	0	0					0		☆
course			109053	Graduation Thesis	3.0	5	0	0	0	0						0	☆
	subtotal				11												

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Dean: Hu Guiwu