					1 st y	ear			2 nd y	/ear			3 rd	year			4 th	year		Tuge 1 of 7
	Course	Credits	Цонес	Fa	ıll	Spri	ing	Fa	ıll	Spr	ing	Fa	all	Spr	ing	Fa	ıll	Spr	ring	Note
	Course	Credits	Hours	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	Note
	Chinese Literature: Appreciation And Creative Writing	2	2	2																
	Chinese Literature: Appreciation And Creative Writing	2	2			2														
	Practical English 1	0	2	1	1															
	Practical English 2	0	2			1	1													
	Practical English 3	0	2					1	1											
Core	Practical English 4	0	2							1	1									N . 7
Required Courses	English for Business Communication 1	2	3									2	1							Note 7
	English for Business Communication 2	2	3											2	1					
	Workplace English 1	2	3													2	1			
	Workplace English 2	2	3															2	1	
	Service Learning	12	12																	Note 6
	Physical Education 1-6	0	12	2		2		2		2		2		2						
	Subtotal	24		5		5		3		3		2		4		2		2		
	Calculus 1	3	4	3	1															
	Calculus 2	3	4			3	1													
Professional	Introduction to Computer	3	5	3	2															Computer course
Required	Computer Programming 1	3	6	3	3															Computer course
Courses	Discrete Mathematics	3	3			3														
Coarses	Computer Programming 2	3	6			3	3													Computer course
	Digital Logical Design	3	3	3																
	Lab for Digital Logical Design	1	3	3																Lab course

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Electric Circuits	3	3		3									
Data Structures	3	5			3	2							Computer course
Introduction to Computer Networks	3	3			3								
Object-oriented Technology	3	3			3								
Computer Algorithms	3	3					3						
Mobile Device Programming	3	3					3						
Linear Algebra	3	3					3						
Probability and Statistics	3	4						3	1				
Database Systems	3	3						3					
Operating Systems	3	3						3					
Project Research 1-2	6									3	3		1-semester courses

					1 st	year			2 nd	year			3 rd	year			4 th y	ear		
Cou	se	Credits	Hrs	Fa	ıll	Spri	ng	Fa	11	Spri	ng	Fa	11	Spri	ng	Fa	11	Spi	ring	Note
					lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	clas s	lab	
	Machine Learning	3	3					3												
	XML Programming	3	3							3										Computer course
	Artificial Intelligence	3	3							3										
Elective Courses Software and Da	Introduction to Programming ta with Python	3	3							3										
Engineering Program	Advanced Java Programming and Licence	3	3							3										
	Data Mining	3	3							3										
	Web Programming	3	3									3								
	Introduction to Software Engineering	3	3									3								

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					1 st	year			2 nd	year			3 rd y	year			4 th y	ear		
Course	2	Credits	Hrs	Fa	.11	Spri	ng	Fa	11	Spri	ng	Fa	11	Spri	ng	Fa	11	Spr	ring	Note
				class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	clas s	lab	
	Data Warehouse System	3	3									3								
	Advanced Mobile Device											-								
	Programming	3	3									3								
	iOS Programming	3	3									3								
	R Language Data Processing	3	3									3								
	Systems Analysis and Design	3	3											3						
	UNIX Operations Systems	3	3											3						
	Social Networking	3	3											2						
	Programming	3	3											3						
	Advanced iOS Programming	3	3											3						
	Business Intelligence	3	3											3						
	Weka Practice Data Analysis	3	3											3						
	Linux System	3	3													3				
	Social Network Mining	3	3													3				
	Software Testing and	3	3													3				
	Maintenance	3	3													3				
	Practical Data Analysis	3	3													3				
	Object-Oriented Design Patterns	3	3													3				
Elective	Windows Programming	3	3			3														
Courses-	Introduction to Multimedia	3	3					3												
Networking and	Principle and Application	2	2					2												
Interactive Media	of Sensors	3	3					3												

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3 rd year 4 th year
Fall Spring Fall Spring Note
ass lab class lab class lab class lab
3
3
3
3

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					1 st	year			2 nd	year			3 rd y	year			4 th y	ear		
Course		Credits	Hrs	Fa	11	Spri	ng	Fa	11	Spri	ing	Fa	11	Spri	ng	Fa	.11	Spi	ring	Note
					lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	clas s	lab	
	Military Education	0	2	2																
	Military Education	0	2	_		2														
	Nursing Section	0	2	2																
	Nursing Section	0	2			2														
	Military Education	0	2					2												
	Military Education	0	2							2										
	Physical Education	2	2													2				
	Physical Education	2	2															2		
	Japanese 1-1	2	3	2	1															
	Japanese 1-2	2	3			2	1													
	Japanese 2-1	2	3					2	1											
	Japanese 2-2	2	3			_				2	1			_		_				
	Introduction to Civil Law	2	2	2																
	Copyright law	2	2											2						

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					1 st	year			2 nd	year			3 rd y	year			4 th y	ear		
Course	e	Credits	Hrs	Fa	11	Spri	ng	Fa	11	Spri	ng	Fal	11	Spri	ng	Fa	ıll	Spi	ring	Note
				class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	clas s	lab	
	Practical English	3	3									3								
	Workplace English	3	3											3						
	Applied Information Technology 1	2	2	2																Computer course
	Applied Information Technology 2	2	2			2														Computer course
	Information Technology Application	2	4			2	2													Computer course
	Web Programming	3	3					3												Computer course
	Computer Aided Design	3	3					3												Lab course
	Micro Processor Systems	3	3							3										Lab course
Other informational	Introduction to Web Servers	3	3							3										Computer course
Elective Course	Advanced CPP Programming	3	3							3										Computer course
	Advanced Java Programming and Licence	3	3							3										Computer course
	Computer Animation	3	3							3										Computer course
	Digital Signal Processing	3	3							3										
	Mobile Information Systems design	3	3							3										Computer course
	Artificial Intelligence	3	3									3								

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				1 st	year			2 nd	year			3 rd :	year			4 th y	ear		
Course	Credits	Hrs	Fa	ıll	Spri	ing	Fa	11	Spri	ng	Fal	11	Spri	ng	Fa	11	Spr	ring	Note
				lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	clas s	lab	
Information ethics	2	2									2								
Fuzzy Theory	3	3									3								
Special Topics on Programming	3	3									3								
Introduction to Coding	3	3									3								
The Design and Applica of FPGA/CPLD	ations 3	3									3								Lab course
Seminar on the Design of Computer Algorithms	of 3	3									3								
Cloud technology design and s	services 3	3									3								
Statistics analysis and Application	3	3											3						
Database design	3	3											3						
Unix Programming	3	3											3						Computer course
Peripheral Interface Des	sign 3	3											3						Lab course
Introduction to Secret Si	haring 3	3											3						
Cloud computing Securi Management	ity 3	3											3						
Cloud computing technology and applied	ology 3	3											3						
Social media application desig	gn 3	3											3						
Advanced Computer Architectures	3	3													3				
Distributed Systems	3	3													3				

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						1 st	year			2 nd	year			3 rd y	year			4 th y	ear		
	Course	2	Credits	Hrs	Fa	11	Spri	ng	Fal	11	Spri	ng	Fal	11	Spri	ing	Fa	11	Spr	ring	Note
						lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	clas s	lab	
		Information Laws	3	3													3				
		Social media project develop	3	3													3				
		The Lectures of Information Trend I	1	2													2				Required chosen
		The Lectures of Information Trend II	1	2															2		Required chosen
		Performance Analysis	3	3															3		
		Intelligent Computation	3	3															3		
		Digital content and trend	3	3															3		
	Subtotal Required	Course Credits	89		18		20				15		12		12		9		3		
	Subtotal Elective C	Course Credits	39																		
Subtotal	Subtotal Professio	nal Elective Course Credits	19																		
	Subtotal Other Ele	ective Course Credits	20																		
	Subtotal		128									_									

Notes:

- 1. The students of CSIE department must fulfill 128 credits by graduation, including:
 - I. 24 required credits designed by the university
 - II. 65 required credits designed by the department
 - III. At least 39 elective credits which include:
 - A. At least one kernel course from each of the four programs (totally 15 credits)
 - B. At least one of the following two courses: Information Law and Information Ethics.
- 2. Students can choose other course of Information College or cooperation programs as professional elective courses. Students can choose other professional courses of Information College as professional elective courses if agreed by the chair of the department. Courses not from the

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Information College are not admitted by the department and cannot be taken as the graduation credits if not agreed by the chair of the department. Credits of Courses which not from the Information College can't count as graduation credits when exceed 20.

- 3. Students can choose other course of CSIE graduate school as professional elective courses and count as graduation credits if agreed by the chair of the department.
- 4. If students can't graduate due to course can't open as well. Chair of the department can choose another course for instead.
- 5. Students who fail a course, can choose another course of other department which have same name or same course contents if agreed by the chair of the department and count as graduate credits.
- 6. Beginning with those enrolling in the academic year of 2010, students are required to take at least 12 credit hours of General Education courses. There are three disciplines within General Education Humanities, Social Science and Natural Science. The courses are categorized into "Core Courses" and "Extended Courses" under each discipline. To meet the graduation requirements, students are required to take at least one 2- credit-hour course in each category of each of the disciplines. Credits which exceed 12 can't count as graduation credits.
- 7. According to principle of school, to meet the graduation requirements, students are required to pass "Service-Learing", "English proficiency ", "Information proficiency", "Chinese proficiency ", "Exercise capacity ", "Professional Ability" tests.
- 8. We don't admit education course as graduation credits.
- 9. Students which finish the classes of each program can apply for the certificate. The requirement of each program will be determined in the other regulation.
- 10. The elective courses on this Course Outline may be counted toward total graduation credits by students who entered the university prior to the 2013-7 academic year.