Page 1 of

					1 st y	ear			2 nd y	year			3 rd	year			4 th	year		
	Course	Credits	Loure	Fa	111	Spri	ing	Fa	11	Spri	ing	Fa	ıll	Spr	ing	Fa	all	Spi	ring	Note
	Course	Credits	Tiours	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									Note 7
Required Courses	English for Business Communication 1	2	3									2	1							Note /
	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	General Physics	3	3	3																Lab course included
Courses	Computer Programming 1	3	6	3	3															Computer course
Courses	Discrete Mathematics	3	3			3														
	Computer Programming 2	3	6			3	3													Computer course
	Digital Logical Design	3	3			3														

Page 2 of 7

Lab for Digital Logical Design	1	3		3									Lab course
The Overview of Information Technology	1	1		1									
Linear Algebra	3	3			3								
Data Structures	3	5			3	2							Computer course
Electric Circuits	3	3			3								
Introduction to Computer Networks	3	3			3								
Engineering Mathematics	3	3					3						
Assembly Language	3	3					3						
Computer Algorithms	3	3					3						
Probability and Statistics	3	4						3	1				
Database Systems	3	3						3					
Computer Architectures	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 y	ear			4 th y	ear		
	Course		Credits	Hrs	Fa	ıll	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	
		Java Programming	3	3					3												Computer
																					course
		XML Programming	3	3							3										Computer course
Sy	ystem	Introduction to Software Engineering	3	3									3								
Pro	ogram	C# Programming	3	3									3								Computer course
		Object-oriented Technology	3	3									3								

Page 3 of 7

					1 st	year			2 nd	year			3 rd	year			4 th y	ear		
Cours	e	Credits	Hrs	Fa	.11	Spri	ng	Fa	11	Spri	ng	Fa	11	Spri	ng	Fa	.11	Spi	ring	Note
				class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	clas s	lab	
	Systems Analysis and Design	3	3											3						
	Formal Language	3	3											3						
	UNIX Operations Systems	3	3											3						Computer course
	Software Testing and Maintenance	3	3													3				
	Human Machine Technology	3	3													3				
	Linux System	3	3													3				
	Introduction to Mobile Communication	3	3					3												
	TCP/IP Protocol	3	3							3										
	Introduction to High Definition Television	3	3							3										
Elective Courses-	Introduction to Video Communication	3	3									3								
Networking and Communication	Mobile application design	3	3									3								
Program	Introduction to Information Security	3	3									3								
	Ad Hoc Networks	3	3											3						
	High-speed Networks	3	3											3						
	network intrusion detection	3	3											3						
	Advanced Mobile application design and Licence	3	3											3						Computer course

Page 4 of 7

					1 st	year			2 nd	year			3 rd	year			4 th y	ear		
Course	2	Credits	Hrs	Fa	ıll	Spri	ng	Fai	11	Spri	ing	Fa	11	Spri	ng	Fa	11	Spi	ring	Note
				class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	clas s	lab	
	Network Planning and Management	3	3													3				
	Network Security	3	3															3		
	Data Mining	3	3							3										
	Data Warehouse System Design	3	3									3								Computer course
Elective Courses-	Social Network Mining	3	3									3								
Data Analysis and Application Program	Practical Data Analysis	3	3											3						Computer course
	Advanced Database Systems	3	3																	
	Program Design in Business Intelligent	3	3													3				Computer course
	Graphic Design	3	3	3																Computer course
Elective Courses-	Animation design	3	3			3														Computer course
Interactive	Interactive media design	3	3					3												
Media Program	Electronic interactive project	3	3							3										Computer course
	Matlab programming	3	3							3										Computer course

Page 5 of 7

					1 st	year			2 nd	year			3 rd y	/ear			4 th y	ear		
Course	Cred	dits I	Hrs	Fa	11	Spri	ng	Fal	11	Spri	ng	Fal	11	Spri	ng	Fa	11	Spi	ring	Note
				class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	clas s	lab	
Image pro	ocessing 3	3	3									3								Computer course
Design of Game	f Interactive Camera 3	3	3											3						Computer course
Multimed	lia Games design 3	3	3											3						
Human M	Machine Techonology 3	3	3													3				
Military E	Education 0)	2	2																
Military E	Education 0)	2			2														
Nursing S	Section 0)	2	2																
Nursing S	Section 0)	2			2														
Military E	Education 0)	2					2												
Military E	Education 0)	2							2										
Physical I	Education 2	2	2													2				
Physical I	Education 2	2	2															2		
Japanese	1-1 2	2	3	2	1															
Japanese	1-2 2	2	3			2	1													
Japanese 2	2-1 2	2	3					2	1											
Japanese 2	2-2 2	2	3							2	1									
Introducti	ion to Civil Law 2	2	2	2																
Copyright	t law 2	2	2											2						
Practical I	English 3	3	3									3								
Workplace	ee English 3	3	3											3						L

Page 6 of 7

					1 st	year			2 nd	year			3 rd	year			4 th y	ear		
Course	;	Credits	Hrs	Fa	ıll	Spri	ng	Fa	11	Spri	ng	Fal	11	Spri	ng	Fa	11	Spi	ring	Note
				class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	clas s	lab	
	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	Introduction to Web Servers	3	3							3										Computer course
informational 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								
	Information ethics	2	2									2								
	Fuzzy Theory	3	3									3								

Page 7 of 7

				1 st	year			2^{nd}	year			3 rd y	/ear			4 th y	ear		
Course	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	
Special Topics on Programming	3	3									3								
Introduction to Coding	3	3									3								
The Design and Applications of FPGA/CPLD	3	3									3								Lab course
Seminar on the Design of Computer Algorithms	3	3									3								
Cloud technology design and service	3	3									3								
Statistics analysis and Application	3	3											3						
Database design	3	3											3						
Unix Programming	3	3											3						Computer course
Peripheral Interface Design	3	3											3						Lab course
Introduction to Secret Sharing	3	3											3						
Cloud computing Security Management	3	3											3						
Cloud computing technology and applied	3	3											3						
Social media application design	3	3											3						
Advanced Computer Architectures	3	3													3				
Distributed Systems	3	3													3				
Information Laws	3	3													3				
Social media project develop	3	3													3				

Page 8 of 7

						1 st :	year			2 nd	year			3 rd y	year			4 th y	ear		
	Course		Credits	Hrs	Fa	ıll	Spri	ng	Fal	11	Spri	ng	Fal	1	Spri	ng	Fa	11	Spi	ring	Note
						lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	clas s	lab	
	The Le	Lectures of Information	1	2													2				Required chosen
	The Le	ectures of Information	1	2															2		Required chosen
	Perform	rmance Analysis	3	3															3		
	Intellig	igent Computation	3	3															3		
	Digital	al content and trend	3	3															3		
	Subtotal Required Course	e Credits	89		18		20				15		12		12		9		3		
	Subtotal Elective Course (Credits	39																		
Subtotal	Subtotal Professional Elec	ective Course Credits	19																		
	Subtotal Other Elective Co	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 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.

Page 9 of 7

- 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.