











Course	Credits	Hrs	1 <sup>st</sup> year				2 <sup>nd</sup> year				3 <sup>rd</sup> year				4 <sup>th</sup> year				Note
			Fall		Spring		Fall		Spring		Fall		Spring		Fall		Spring		
			class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	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
Introduction to Web Servers	3	3							3										Computer 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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			class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	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 Applications of FPGA/CPLD	3	3									3								Lab course
Seminar on the Design of Computer Algorithms	3	3									3								
Cloud technology design and 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 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				

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			Fall		Spring		Fall		Spring		Fall		Spring		Fall		Spring			
			class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	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	Subtotal Required Course Credits	89		18		20				15			12		12		9		3	
	Subtotal Elective Course Credits	39																		
	Subtotal Professional Elective Course Credits	19																		
	Subtotal Other Elective 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.

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-Learning", "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.