				1st year				2 nd year						year			4 th	year		
	Course	Credits	Hours	Fal		Spr		Fa		Spri		Fal		Spri		Fa		Spr		Note
	Iou .			class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	
	Chinese Literature:																			
	Appreciation And	2	2	2																
	Creative Writing I																			
	Chinese Literature:					_														
	Appreciation And	2	2			2														
	Creative Writing II																			
	Practical English 1	0	2	1	1															
	Practical English 2	0	2			1	1													
	Practical English 3	0	2					1	1											_
	Practical English 4	0	2							1	1									
Core Required Courses	English for Business	2	3									2	1							
	Communication 1																			1
	English for Business Communication 2	2	3											2	1					
	Practical English of	2	3													2	1			
	Professionals 1																			_
	Practical English of Professionals 2	2	3															2	1	
	General Ed	12	12																	2
	Physical Education	0	10	_		_				_		_								
	(1)~(6)	0	12	2		2		2		2		2		2						
	Subtotal	24	48																	
	Calculus I	3	3	3																
	Physics	3	3	3																
	Concept of Computer	2	_	2	_															C 4
	Science	3	5	3	2															Computer course
Professional	Programming Design I	3	5			3	2													Computer course
Required Courses		3	4			3	1													
	Physics Laboratory	1	3			1	2													Computer course
	Electronic Circuits I	3	3			3														•
	Digital Logic Design	3	3			3														
	Electronic Circuits II	3	3					3												Computer course

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			1 st year					2 nd	year				year		4 th year				
Course	Credits	Hours	Fall		Spri		Fal		Spri		Fal		Spri		Fall		Spri		Note
			class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	
Electronic Circuits Laboratory I	1	3					1	2											
Engineering Mathematics I	3	3					3												Computer course
Electronics I	3	3					3												
Electromagnetics I	3	3					3												
Digital System Design and Laboratory	3	3					3												Computer course
Engineering Mathematics II	3	3							3										
Electronics II	3	3							3										
Electronic Circuits Laboratory II	1	3							1	2									Computer course
Microprocessor Design and Laboratory	1	3							1	2									Computer course
Electronic Circuits Laboratory III	1	3									1	2							Computer course
Project Research I	3	3											3						
Project Research II	3	3													3				
Subtotal	62	81																	
Total Required Course Credits (Electronic Engineering Department)																			

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					ear		2 nd year					3 rd y	ear			4 th y	ear				
Elective Courses		Credits	Hours	Fal	1	Spr		Fal	11	Spri		Fa	11	Spri		Fall		Spr		Note	
				class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab		
	Signals and Systems	3	3									3								Program core course	
	Computer Organization	3	3									3									
	Data Structure	3	3									3								Computer course	
	Introduction to VLSI Design	3	3									3								Computer course (Program core course)	
IC Chip and	Electronic Circuit Design	3	3											3							
System	Communication Systems	3	3											3							
	Introduction to Digital Image Processing	3	3											3							
	Microprocessor Communication	3	3											3							
	Linear Circuit Design	3	3													3					
	Control System	3	3																		
	Analog IC Design	3	3															3			
	Embedded System	3	3															3			
	Optoelectronic Devices	3	3									3								Program core course	
	Introduction to Semiconductor Devices	3	3									3								Program core course	
Electronic and	Electromagnetic Wave	3	3									3									
semiconductor device	Introduction to solar cells	3	3											3							
	Introduction to Microwave Engineering	3	3											3							
	Semiconductor Measurement	3	3											3							

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			1130 00		1 st y				2 nd				3 rd y	ear		4 th year				1 age 4 01 0
Elective Courses		Credits	Hours	Fal		Spri	ng	Fa	11	Spri		Fa		Spri		Fal		Spr		Note
	Optoelectronic Design and Application	3	3	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	
	Introduction to Semiconductor Manufacuring Technology	3	3													3				
	Introduction to Flat Display	3	3													3				
	Introduction to Semiconductor Reliability Engineering	3	3													3				
	Optical Fiber Communication	3	3															3		
Information Applications		2	4			2	2													Computer course
Engineer application software		3	3					3												Computer course
Probability and Statistics		3	3					3												
Linear Algebra		3	3					3												
Physics II		3	3									3								
OrCAD Electronic C	fircuit Design	3	3									3								Computer course
Modern Physics		3	3									3								
Electromagnetics II		3	3									3								Program core course
Introduction to Electr		3	3									3								
Introduction to Deep		3	3									3								
FPGA/CPLD Design	l	3	3											3						Computer course
Communication Lab		3	3											3						
Workplace English		3	3											3						
Introduction to Metro	ology Technology	3	3											3						
Introduction to Comp	outer Networks	3	3													3				
Artificial Intelligence	9	3	3													3				
Internship		3	3													3				

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3rd vear 4th vear 1st vear 2nd vear Elective Courses Credits Hours Fall Spring Fall. Spring Fall Spring Fall Spring Note class lab Physical Training (7) 2 2 Embedded Systems 3 3 3 Computer course Advanced Internship 3 3 3 Practical Project of Electronics 3 3 NANO Electronic Devices 3 Physical Training(8) 2 2 Microprocessor Fundamentals 3 Special program Microprocessor Laboratory 2 2 Special program Information theory and coding 3 3 3 Special program Synthesis Design I Special program 4 4 4 Communication System Lab 3 3 Special program Global Positioning System and Special program 3 3 3 Navigation Remote Sensing of Oceanography Special program 3 3 3 Synthesis Design II 4 4 Special program Employment and entrepreneurship guidance Special program 1

Graduation Requirements:

Grand Total

Subtotal Required

Subtotal Elective Course

Course Credits

Credits

Total

82

46

128

- 1. In accordance with the General Provisions for Study, undergraduate students need to satisfactorily complete Service Learning, meet the university-wide basic competencies of English, Information Technology, Chinese, and Sports, and pass the core competencies of their department to be eligible for graduation.
- 2. Students who entered in and since the 2008-09 academic year need to complete at least 12 General Education course credits. General Education courses are divided into three areas: Humanities, Social Science, and Natural Science. Each area is divided into two subcategories: core and

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- extended. Students need to take 1 two-credit course in both of the subcategories within each area to be eligible for graduation. Only 12 course credits will be counted toward graduation. Additional course credits earned in General Education courses are not counted toward graduation.
- 3. For those courses taken by EE students, only 20 credits at most from other departments can be counted by EE department. Professional courses given by departments of IT school or joint courses with IT school can be treated as elective courses from other departments. For non-IT professional courses, only those approved by the chairman of EE department during elective period can be treated as elective courses from other departments.
- 4. When retaking the required course, for only senior students can choose those which are with the same course name or the same course content as substitutions under the approval of the department chair. These courses can be regarded as their graduation credits.
- 5. Students who fulfill the requirement of each program can apply for the corresponding certificate. Each program has its own regulation as follows:
 - (1) The VLSI and System Engineering Program: In order to get the program certificate, students must make at least seven elective courses, the program required courses include: Digital System Design and Lab, MATLAB Programming, Introduction to VLSI Design.
 - (2) The Electronic Components Program: In order to get the program certificate, students must make at least seven elective courses, the program required courses include: Electromagnetics II, Optoelectronic Devices, Introduction to Semiconductor Devices.
- 6. Students can choose the courses from the EE master program, which can be counted as their graduation credits.
- 7. Education credits cannot be counted as the graduation credits.
- 8. The elective courses on this Course Outline may be counted toward total graduation credits by students who entered the university prior to the 2011 academic year.