				1 st year						year		<u> </u>	3 rd	year			4 th	year	lage 1 of 0	
	Course	Credits	Hours	Fal		Spri		Fal		Spri		Fa		Spri		Fa		Spr		Note
	Chinese Literature: Appreciation And Creative Writing I	2	2	class 2	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	
	Chinese Literature: Appreciation And Creative Writing II	2	2			2														
	Practical English 1	0	2	1	1															
	Practical English 2	0	2	1	1	1	1													
	Practical English 3	0	2			1	1	1	1											
	Practical English 4	0	2					1	1	1	1									
Core Required Courses	English for Business Communication 1	2	3							1	1	2	1							
	English for Business Communication 2	2	3											2	1					1
	Practical English of Professionals 1	2	3													2	1			
	Practical English of Professionals 2	2	3															2	1	
	General Ed	12	12																	2
	Physical Education (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 Science	3	5	3	2															Computer course
Professional	Programming Design I	3	5			3	2													Computer course
Required Courses	Calculus II	3	4			3	1													
	Physics Laboratory	1	3			1	2													Computer course
	Electronic Circuits I	3	3			3														
Ī	Digital Logic Design	3	3			3														
	Electronic Circuits II	3	3					3												Computer course

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				ear				year				year		4 th year					
Course	Credits	Hours	Fal		Spri		Fa		Spri		Fa		Spri		Fa		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)	87																		

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					1 st y	ear		2 nd year					3 rd y	ear		4 th y	year				
Elective Courses		Credits	Hours	Fal	1	Spri		Fal	1	Spri		Fa	11	Spri		Fal	11	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							
2,500	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							

			1130 0		1 st y		uuci			year	202		3rd	year			4 th v	/ear		age 4 01 0
Elective Courses		Credits	Hours	Fal		Spri	ng	Fal		Spri	ng	Fa		Spri	ng	Fa		Spri	ng	Note
				class	lab	class		class	lab	class		class	lab	class	lab	class		class	lab	
	Optoelectronic Design and Application	3	3											3						
	Introduction to																			
	Semiconductor	3	3													3				
	Manufacuring	3	3													3				
	Technology																			
	Introduction to Flat	3	3													3				
	Display																			
	Introduction to Semiconductor	3	3													2				
	Reliability Engineering	3	3													3				
	Optical Fiber																			
	Communication	3	3															3		
Information Applications		2	4			2	2													Computer course
Engineer application	on software	3	3					3												Computer course
Probability and Sta	ntistics	3	3					3												
Linear Algebra		3	3					3												
Physics II		3	3									3								
OrCAD Electronic	Circuit Design	3	3									3								Computer course
Modern Physics		3	3									3								-
Electromagnetics I	1	3	3									3								Program core course
Introduction to Ele		3	3									3								
Introduction to Dec		3	3									3								
FPGA/CPLD Desi	gn	3	3											3						Computer course
Communication La	ab	3	3											3						
Workplace English	1	3	3											3						
Introduction to Me	trology Technology	3	3											3						
Introduction to Con	mputer Networks	3	3													3				
Artificial Intelliger	nce	3	3													3				
Internship		3	3													3				

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					1 st y			2 nd year					3 rd v	year		4 th v	year			
Elective Courses		Credits	Hours	Fal		Spri		Fal		Spri		Fa		Spri		Fa		Spri		Note
				class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	
Physical Training	(7)	2	2													2				
Embedded System	1S	3	3															3		Computer course
Advanced Internsh	nip	3	3															3		
Practical Project o	f Electronics	3	3															3		
NANO Electronic	Devices	3	3															3		
Physical Training((8)	2	2															2		
Microprocessor Fu	undamentals	3	3									3								Special program
Microprocessor La	aboratory	2	2									2								Special program
Information theory	y and coding	3	3									3								Special program
Synthesis Design	I	4	4									4								Special program
Communication S	ystem Lab	3	3											3						Special program
Global Positioning Navigation	g System and	3	3											3						Special program
Remote Sensing o	f Oceanography	3	3											3						Special program
Synthesis Design	II	4	4											4						Special program
Employment and	entrepreneurship guidance	1	1											1						Special program
	Subtotal Required Course Credits	82																		
Grand Total	Subtotal Elective Course Credits	46																		
<u> </u>	Total	128																		

Graduation Requirements:

- 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.