Page 1 of 7

			1130 00		1 st y					year			3 rd	year			4 th	year		1 age 1 of 7
	Chinaga Literatura	Credits	Hours	Fal		Spri		Fal		Spri		Fal		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													
	Practical English 3	0	2					1	1											-
	Practical English 4	0	2							1	1									-
Core Required Courses	English for Business Communication 1	2	3									2	1							1
	English for Business Communication 2	2	3											2	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														
	Digital Logic Design	3	3			3														
	Electronic Circuits II	3	3					3												Computer course

		**		1 st y	ear			2 nd	year			3 rd y	year			4 th y	year		
Course	Credits	Hours	Fall		Spri	ng	Fal	1	Spri	ng	Fal	1	Spri		Fal	11	Spri	ng	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																		

Page 2 of 7

Page 3 of 7

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

Page	4	of	,
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Elective Courses			1130 00		1 st y				2 nd				3 rd y	ear			4 th v	year		1 age 4 01 7
Elective Courses		Credits	Hours	Fal	1	Spri		Fal		Spri		Fal		Spri		Fal		Spri		Note
				class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	
_	electronic Design	3	3											3						
	Application																			
	duction to																			
	iconductor	3	3													3				
	ufacuring		2													3				
	nology																			
	duction to Flat	3	3													3				
Disp																				
	cal Fiber	3	3															3		
	munication																			
Military Training Educati	ion I	0	2	2																
Japanese I		2	3	2	1															
Military Training Educati	ion II	0	2			2														
Japanese II		2	3			2	1													
Information Applications		2	4			2	2													Computer course
Military Training Educati	ion III	0	2					2												
Vector Calculus		3	3					3												
Engineer application soft		3	3					3												Computer course
Probability and Statistics		3	3					3												
Linear Algebra		3	3					3												
Physics II		3	3									3								
Military Training Educati		0	2									2								
Optics and Optical Design		3	3									3								Computer course
OrCAD Electronic Circui	it Design	3	3									3								Computer course
Modern Physics		3	3									3								
Electromagnetics II		3	3									3								Program core course
Introduction to Electronic	: Materials	3	3									3								
Introduction to Deep Lear	rning	3	3									3								
Microcontrollers		3	3									3								Computer course
Microprocessor Fundame	entals	3	3									3								

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				1 st y				2 nd				3 rd y				4 th y			
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	
Microprocessor Laboratory	2	2									2								
Information theory and coding	3	3									3								
Synthesis Design I	4	4									4								
Communication System Lab	3	3											3						
Global Positioning System and	3	3											3						
Navigation	3	3											,						
Remote Sensing of Oceanography	3	3											3						
Synthesis Design II	4	4											4						
Introduction to Digital signal processing	3	3											3						
Numerical Analysis	3	3											3						
Discrete Mathematics	3	3											3						
FPGA/CPLD Design	3	3											3						Computer course
Communication Lab	3	3											3						
Workplace English	3	3											3						
Employment and entrepreneurship guidance	1	1											1						
Introduction to Semiconductor Reliability Engineering	3	3											3						
Introduction to Metrology Technology	3	3											3						
Green Energy Technology	3	3											3						
Introduction to Data Compression	3	3													3				
Solid State Electronics	3	3													3				
Introduction to Computer Networks	3	3													3				
Introduction to Computer Vision	3	3													3				
Internship	3	3													3				
Physical Training (7)	2	2													2				
Embedded Systems	3	3															3		Computer course
Advanced Internship	3	3											_				3		

Page 5 of 7

Page 6 of 7

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					1 st y	ear			2^{nd}	year			3 rd y	/ear			4 th y	/ear		
Elective Courses		Credits	Hours	Fal	1	Spri	ng	Fal	1	Spri	ng	Fal	1	Sprii	ng	Fa	11	Spri	ng	Note
				class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	
Practical Project o	f Electronics	3	3															3		
NANO Electronic	Devices	3	3															3		
Physical Training((8)	2	2															2		
	Subtotal Required Course Credits	82																		
Grand Total	Subtotal Elective Course Credits	46																		
	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 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

Page 7 of 7

- 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.