Curriculum

Classification	Subject No.	Subject Name	Lecture:Lab:Credit (Homework)	Semester	Remark
General Courses	CC 010	Special Lecture on Leadership	1 : 0 : 0 (0)	Spring/Fall	
	CC 500	Science Writing in English	3 : 0 : 3 (4)	Spring/Fall	
	CC 510	Introduction to Computer Application	2 : 3 : 3 (1 0)	Spring/Fall	
	CC 511	Probability and Statistics	2 : 3 : 3 (6)	Spring/Fall	
	CC 512	Introduction to Materials and Engineering	3 : 0 : 3 (3)	Spring/Fall	
	CC 513	Engineering Economy and Cost Analysis	3 : 0 : 3 (6)	Fall	
	CC 530	Entrepreneurship and Business Strategies	3 : 0 : 3 (6)	Fall	
Interdisciplinary Mandatory Major Courses	STE 505	Semiconductor Process Laboratory	2 : 6 : 3	Summer	MS and Ph.D Mandatory
	STE 605	Fundamentals of Memory Devices	3 : 0 : 3	Fall	MS Elective, Ph.D Mandatory
Interdisciplinary Elective Major Courses	CBE473	Microelectronics Processes	3:0:3(3)	Spring/Fall	**
	CBE525	Molecular Electronics	3:0:3(3)	Spring/Fall	
	CBE581	Micro-Chemical and Biomolecular System	3:0:3(3)	Spring	
	CBE682	Organic Nano-Structed Materials	3:0:3(3)	Fall	
	CH471	Polymer Chemistry	3:0:3(3)	Fall	**
	CH671	Organic Chemistry of High Polymers	3:0:3(3)	Spring/Fall	
	CH672	Specialty Polymer Chemistry	3:0:3(3)	Spring/Fall	
	CH774	Special Topics in Polymer Chemistry II	3:0:3(3)	Spring/Fall	
	EE421	Communication Systems	3:0:3(6)	Spring	**
	EE432	Digital Signal Processing	3:0:3(6)	Fall	**
	EE535	Digital Image Processing	3:0:3(6)	Spring	
	EE561	Introduction to VLSI Devices	3:0:3(6)	Spring	*MS684
	EE564	Integrated Circuit Fabrication Process	3:0:3(6)	Fall	*MS635
	EE566	MEMS in EE Perspective	3:0:3(6)	Fall	
	EE571	Advanced Electronic Circuits	3:0:3(6)	Spring	
	EE573	Introduction to VLSI Systems	3:0:3(6)	Spring	
	EE641	Monolithic Microwave Integrated Circuits	3:0:3(6)	Spring	
	EE661	Solid State Physics	3:0:3(6)	Spring	*MS613
	EE663	High Frequency Electronic Devices	3:0:3(6)	Spring	
	EE676	Analog Integrated Circuits	3:0:3(6)	Fall	
	EE678	Digital Integrated Circuits	3:0:3(6)	Fall	
	EE762	Advanced MOS Device Physics	3:0:3(6)	Fall	
	MS613	Solid State Physics	3:0:3(3)	Fall	*EE661
	MS635	Semiconductor Integrated Process Design	3:0:3(2)	Fall	*EE564
	MS642	Electronic Packaging Technology	3:0:3(2)	Spring	
	MS654	Surface Science	3:0:3(2)	Spring	
	MS684	Principles of Semiconductor Devices	3:0:3(3)	Spring	*EE561
	PH441	Introduction to Plasma Physics	3:0:3(4.5)	Fall	
	PH613	Semiconductor Physics	3:0:3(4.5)	Spring/Fall	
	PH621	Advanced Wave Optics	3:0:3(4.5)	Spring/Fall	
	PH643	Applied Plasma Physics	3:0:3(4.5)	Spring/Fall	

Classification	Subject No.	Subject Name	Lecture:Lab.:Credit (Homework)	Semester	Remark
Research	STE998	MS Internship	0 : 0 : 1	Summer /Winter	
	STE999	Ph.D Internship	0 : 0 : 3	Spring/Fall	
	STE960	MS Thesis Research			
	STE980	Ph.D. Thesis Research			

※ Remark : * Substitutional Subject.

** The courses of 400 level can be taken by students in either undergraduate or master's program.

※ Only one subject is counted when one takes 2 equivalent substitutional subjects.

ex) 1. 1 course of EE561(Introduction to VLSI Devices), MS684(Principles of Semiconductor Devices)

2. 1 course of EE564(Integrated Circuit Fabrication Process), MS635(Semiconductor Integrated Process Design)

3. 1 course of EE661(Solid State Physics), MS613(Solid State Physics)