Focus: Electronic Materials

			FIRS	ST YEA	R				
First Sem	ester				Second Se	emester			
MJC	100	Majors: Informative Course	0	1	ENG	102	Freshman English II	3	4
ENG	101	Freshman English I	3	3	HIST	192	The Making of Modern Turkey II	2	3
HIST	191	The Making of Modern Turkey I	2	3	MATH	102	Functions: Discrete and Continuous II	3	6
MATH	101	Functions: Discrete and Continuous I	3	6	NS	102	Science of Nature II	4	6
NS	101	Science of Nature I	4	6	SPS	102	Humanity and Society II	3	6
SPS	101	Humanity and Society I	3	6	TLL	102	Turkish Language and Literature II	2	3
TLL	101	Turkish Language and Literature I	2	3	PROJ	102	Project Course	3	2
CIP	101	Civic Involvement Projects I	0	2					
		Total Credit	17	30			Total Credit	20	30
			SECO	ND YE	 				
Third Sen	noctor		SECO	ND IE	AK Fourth Se	mostor			
CS	201	Introduction to Computing	3	6	MATH	202	Differential Equations	3	6
ENS	201	Introduction to Computing Introduction to Materials Science	3		MAT	202	Electrical, Optical and Magnetic Properties (3	6
ENS	203	Thermodynamics	2		NS	218	Fundamentals of Nanoscience	3	6
MATH	202 / 201	Intro. To Prob. & Stat./ Linear Algebra	3		ENS	209	Introduction to Computer Aided Drafting and S	3	6
ENS	203 / 201 203	Electronic Circuits I	3 4		MAT	209	Kinetics	3	6
ENS	203	Total Credit	16	31		200	Total Credit	15	30
		Total Cicuit	10	31			Total Credit	10	- 50
			THIR	RD YEA	R				
Fifth Sem	ester				Sixth Sem	ester			
MAT	312	Materials Characterization	4	7	HUM	2XX	Major Works	3	5
MAT	314	Mechanical Properties of Materials	3	5	MAT	306	Computational Techniques for Materials at the 1	3	5
MATH	203 / 201	Intro. To Prob. & Stat./ Linear Algebra	3	6	MAT	308	Phase Equilibria	3	5
EE	307	Semiconductor Physics and Circuits	3	6	MAT	307	Composite Materials	3	6
MAT	305	Polymer Engineering I	3	5		Elective		3/4	6-7
 		Total Credit	16	29			Total Credit	15/16	27-28
		2000 02002	10				20002 0.7000	10,10	
PROJ	302	Summer Project	0	5					
			FOUR	TH YE	AR				
Seventh S	Semester				Eight Sen	nester			
ENS	491	Graduation Project (Design)	1	2	ENS	492	Graduation Project (Implementation)	3	5
SPS	303	Law and Ethics	3	5	MAT	406	Fundamentals of Nanoengineering	3	5
MAT	408	Introduction to Ceramics	3	5		Elective		3	5-6
PHYS	302	Solid State Physics	3	6		Elective		3/4	6-7
PHYS	303	Quantum Mechanics I	3	6		Elective		3/4	6-7
ME	402	Plasmonics	3	6					
		Total Credit	16	30			Total Credit	15/17	27-30

University Courses Shown in Green

Required Courses shown in Bold Must take focus area courses in red bold

Recommended electives:

PHYS

EE 407 Microelectronic Fabrication

EE 408 Modeling of Semiconductor Devices

EE 307 Semiconductor Physics and Circuits

ENS 201 Electromagnetism

NS 214 Waves, oscillations and optics

492 Modern Topics in Condensed Matter Physics

(at least two to complete track)