Focus: Polymeric and Biological Materials

			FIF	RST YEA	R				
First Sem	ester				Second Se	emester			
MJC	100	Majors: Informative Course	0	1	ENG	102	Freshman English II	3	
ENG	101	Freshman English I	3		HIST	192	The Making of Modern Turkey II	2	
HIST	191	The Making of Modern Turkey I	2		MATH	102	Functions: Discrete and Continuous II	3	
MATH	101	Functions: Discrete and Continuous I	3		5 NS	102	Science of Nature II	4	
NS	101	Science of Nature I	4		SPS	102	Humanity and Society II	3	
SPS	101	Humanity and Society I	3		5 TLL	102	Turkish Language and Literature II	2	
TLL	101	Turkish Language and Literature I	2		PROJ	102	Project Course	3	
CIP	101	Civic Involvement Projects I	0	2	1100	102		5	
- Chi	101	Total Credit	17	30			Total Credit	20	3
			SE C						
Third Sen	noston		SEC	OND YE	AR Fourth Se	magtar			
CS		Introduction to Computing	2	C	MATH		Differential Equations	2	
	201 205	Introduction to Computing Introduction to Materials Science	3		MAT	202 204	Differential Equations	3	
ENS ENS	203	Thermodynamics	3		NIA I	204 218	Electrical, Optical and Magnetic Properties 0 Fundamentals of Nanoscience	3	(
					ENS				(
MATH	203 / 201	Intro. To Prob. & Stat./ Linear Algebra Elective	3 3/4		MAT	209 206	Introduction to Computer Aided Drafting and S	3 3	(
		Total Credit	<u> </u>	<u> </u>		200	Kinetics Total Credit	15	30
		Total Credit	13/10	50	'		Total Creuit	15	50
			TH	IRD YEA	R				
Fifth Sem	ester				Sixth Sem	nester			
MAT	312	Materials Characterization	4	7	HUM	2XX	Major Works	3	-
MAT	314	Mechanical Properties of Materials	3	5	MAT	306	Computational Techniques for Materials at the N	3	-
MATH	203 / 201	Intro. To Prob. & Stat./ Linear Algebra	3	6	MAT	307	Composite Materials	3	(
MAT	305	Polymer Engineering I	3	5	NS	207	Organic Chemistry	4	(
	Elective	• • • •	3/4	6-7	MAT	302	Polymer Synthesis	4	
				••• ••					•
		Total Credit	16/17	29-30			Total Credit	17	29
PROJ	302	Summer Project	0	5					
			FOU	RTH YE					
Seventh Semester					Eight Semester				
ENS	491	Graduation Project (Design)	1		ENS	492	Graduation Project (Implementation)	3	
SPS	303	Law and Ethics	3		MAT	406	Fundamentals of Nanoengineering	3	
MAT	404	Polymer Physics	3	5	MAT	402	Polymer Engineering II	3	
MAT	408	Introduction to Ceramics	3	5	5	Elective		3/4	6
	Elective		3	5-6	1	Elective		3/4	6
	Elective		3/4	6-7					
		Total Credit	16/17	28-30			Total Credit	15/17	27

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

Recommended electives:

401 Surface Science3416 Biomaterials Science and Biocompatibility3	21 E	Biochemistry I	4	7
401 Surface Science3416 Biomaterials Science and Biocompatibility3	66 E	Biophysics: Molecules and Systems	3	5
416 Biomaterials Science and Biocompatibility 3	22 E	Biological Circuits and Molecular Machine	3	6
1 V)1 S	Surface Science	3	6
	6 E	Biomaterials Science and Biocompatibility	3	5
307 Composite Materials 3)7 (Composite Materials	3	6

(at least two to complete track)