## **Recommended Program Template**

			FIF	RST YEA	R				
First Sem	ester				Second S	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	
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	
TLL	101	Turkish Language and Literature I	2	3	PROJ	102	Project Course	3	
CIP	101	Civic Involvement Projects I	0	2			J		
		Total Credit	17	30			Total Credit	20	30
			SEC	OND YE					
Third Sen					Fourth S				
CS	201	Introduction to Computing	3		MATH	202	Differential Equations	3	
ENS	205	Introduction to Materials Science	3		MAT	204	Electrical, Optical and Magnetic Properties o	3	
ENS	202	Thermodynamics	3	6	NS	218	Fundamentals of Nanoscience	3	
MATH	203 / 201	Intro. To Prob. & Stat./ Linear Algebra	3	6	ENS	209	Introduction to Computer Aided Drafting and S	3	
	Elective		3/4		MAT	206	Kinetics	3	
		Total Credit	15/16	30-31			Total Credit	15	30
					<u> </u>				
			TH	IRD YEA					
Fifth Sem					Sixth Sen				
MAT	312	Materials Characterization	4		HUM	2XX	Major Works	3	
MAT	314	Mechanical Properties of Materials	3		MAT	306	Computational Techniques for Materials at the 1	3	
MATH	203 / 201	Intro. To Prob. & Stat./ Linear Algebra	3	6	MAT	307	Composite Materials	3	
MAT	305	Polymer Engineering I	3	5		Elective		3/4	
	Elective		3/4	6-7		Elective		3/4	6-7
		Total Credit	16/17	29-30			Total Credit	15/17	28-30
		Total Credit	10/17	29-30			Total Credit	15/17	20-30
PROJ	302	Summer Project	0						
FROJ	302	Summer Project	0	<u> </u>					
			FOU	RTH YE	 AR				
Seventh Se	emester				Eight Sei	nester			
ENS	491	Graduation Project (Design)	1	2	ENS	492	<b>Graduation Project (Implementation)</b>	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
	Elective		3	5-6		Elective		3/4	
	Elective		3	5-6		Elective		3/4	
	Elective		3/4	6-7					
		Total Credit	16/18	28-31			Total Credit	15/17	27+

## University Courses Shown in Green

## Required Courses shown in Bold

## Must take focus area courses in red bold

Other recommended courses in the faculty with nano content ENS 413 Experimental Methods in Nanoscience I **ENS** 414 Experimental Methods in Nanoscience II

MAT

401 Surface Science 416 Biomaterials Science and Biocompatibility MAT

MAT 404 Polymer Physics

 $\mathbf{ME}$ 

435 Scaling in Engineering Systems492 Modern Topics in Condensed Matter Physics **PHYS** 

ME 402 Plasmonics