

Focus: Polymeric and Biological Materials

University Courses Shown in Green

Required Courses shown in Bold

Must take focus area courses in red bold

Recommended electives:

BIO	321 Biochemistry I	4	7
BIO	466 Biophysics: Molecules and Systems	3	5
ENS	222 Biological Circuits and Molecular Machine	3	6
MAT	401 Surface Science	3	6
MAT	416 Biomaterials Science and Biocompatibility	3	5
MAT	307 Composite Materials	3	6

(at least two to complete track)

FIRST YEAR			
<b>First Semester</b>		<b>Second Semester</b>	
MJC 100	Majors: Informative Course	0	1
ENG 101	Freshman English I	3	3
HIST 191	The Making of Modern Turkey I	2	3
MATH 101	Functions: Discrete and Continuous I	3	6
NS 101	Science of Nature I	4	6
SPS 101	Humanity and Society I	3	6
TLL 101	Turkish Language and Literature I	2	3
CIP 101	Civic Involvement Projects I	0	2
<b>Total Credit</b>		<b>17</b>	<b>30</b>
SECOND YEAR			
<b>Third Semester</b>		<b>Fourth Semester</b>	
CS 201	Introduction to Computing	3	6
ENS 205	Introduction to Materials Science	3	6
ENS 202	<b>Thermodynamics</b>	3	6
MATH 203 / 201	Intro. To Prob. & Stat./ Linear Algebra	3	6
	Elective	3/4	5-6
<b>Total Credit</b>		<b>15/16</b>	<b>30</b>
THIRD YEAR			
<b>Fifth Semester</b>		<b>Sixth Semester</b>	
MAT 312	<b>Materials Characterization</b>	4	7
MAT 314	<b>Mechanical Properties of Materials</b>	3	5
MATH 203 / 201	Intro. To Prob. & Stat./ Linear Algebra	3	6
MAT 305	<b>Polymer Engineering I</b>	3	5
	Elective	3/4	6-7
<b>Total Credit</b>		<b>16/17</b>	<b>29-30</b>
PROJ 302	Summer Project	0	5
FOURTH YEAR			
<b>Seventh Semester</b>		<b>Eight Semester</b>	
ENS 491	<b>Graduation Project (Design)</b>	1	2
SPS 303	Law and Ethics	3	5
MAT 404	<b>Polymer Physics</b>	3	5
MAT 408	Introduction to Ceramics	3	5
	Elective	3	5-6
	Elective	3/4	6-7
<b>Total Credit</b>		<b>16/17</b>	<b>28-30</b>
		<b>Total Credit 15/17 27+</b>	