



DEPARTMENT OF INDUSTRIAL AND SYSTEMS ENGINEERING

ISE						SYE										
FIRST SEMESTER						FIRST SEMESTER						FIRST SEMESTER				GR
			T	U	L	Y	E				T	U	L	Y	E	
AFE	157	English I for Eng. and Architecture	2	2	0	3	4	AFE	157	English I for Eng. and Architecture	2	2	0	3	4	
MATH	151	Calculus I	3	1	2	4	6	MATH	151	Calculus for Engineers I	3	1	2	4	6	
PHYS	101	Physics I	3	1	2	4	6	PHYS	101	Physics I	3	1	2	4	6	
CHEM	101	General Chemistry	3	1	1	4	6	CHEM	101	General Chemistry	3	1	1	4	6	
HUM	101	Humanities I	2	0	2	3	3	HUM	101	Humanities I	2	1	0	3	3	
ES	161	Engineering Drawing	1	0	2	2	5	ES	161	Engineering Drawing	1	0	2	2	5	
						20	30							19	29	
SECOND SEMESTER						SECOND SEMESTER						SECOND SEMESTER				
			T	U	L	Y	E				T	U	L	Y	E	
AFE	158	English II for Eng. and Architecture	2	2	0	3	4	AFE	158	English II for Eng. and Architecture	2	2	0	3	4	
MATH	152	Calculus II (MATH 151)	3	1	2	4	6	MATH	152	Calculus II (MATH 151)	3	2	0	4	6	
PHYS	102	Physics II (PHYS 101)	3	1	2	4	6	PHYS	102	Physics II (PHYS 101)	3	1	2	4	6	
ES	162	Fundamentals of Material Science	2	2	0	3	5	ES	162	Fundamentals of Material Science	2	2	0	3	5	
HUM	102	Humanities II	2	0	2	3	3	HUM	102	Humanities II	2	1	0	3	3	
ISE	102	Introduction to Industrial and Systems Eng.	2	1		2	6	SYE	101	Introduction to Systems Engineering	1	0	2	2	3	
						19	30							21	31	
THIRD SEMESTER						THIRD SEMESTER						THIRD SEMESTER				
			T	U	L	Y	E				T	U	L	Y	E	
ES	112	Algorithms & Computer Programming	3	0	2	4	6	ES	112	Algorithms & Computer Programming	3	0	2	4	6	
MATH	241	Differential Equations (MATH 152)	3	2	0	4	6	MATH	241	Differential Equations (MATH 152)	3	2	0	4	6	
MATH	221	Linear Algebra (MATH 151)	2	2	0	3	6	MATH	221	Linear Algebra (MATH 151)	2	2	0	3	6	
ES	233	Probability & Statistics (MATH 152)	3	1	0	3	5	ES	233	Probability & Statistics (MATH 152)	2	2	0	3	5	
ISE	XX1	Restricted Elective I	3	0	0	3	5	MATH	154	Discrete Mathematics / Restricted Elective	2	2	0	3	6	
TKL	201	Turkish I	2	0	0	2	2	TKL	201	Turkish I	2	0	0	2	2	
						19	30							19	31	
FOURTH SEMESTER						FOURTH SEMESTER						FOURTH SEMESTER				
			T	U	L	Y	E				T	U	L	Y	E	
ISE	212	Scientific Computing (ES112, MATH151)	3	0	2	4	7	ES	272	Numerical Analysis (MATH 152, MATH 221, ES 112)	2	2	0	3	6	
ES	222	Fundamentals of EEE	3	0	0	3	4	ES	222	Fundamentals of Electrical and Electronics Eng.	3	0	0	3	4	
ISE	222	Operations Research 1 (MATH 221)	3	0	2	4	7	SYE	222	Deterministic Models in OR (MATH 221)	3	2	0	4	6	
ISE	252	Statistics (ES 233)	3	2	0	4	6	SYE	242	Applied Statistics(ES 233)	3	2	0	4	6	
ECON	204	Economics	3	0	0	3	4	ECON	204	Economics for Engineers	3	0	0	3	4	
TKL	202	Turkish II	2	0	0	2	2	TKL	202	Turkish II	2	0	0	2	2	
						20	26							19	29	

ISE						SYE													
FIFTH SEMESTER						FIFTH SEMESTER													
	T	U	L	Y	E		T	U	L	Y	E								
ISE	331	Finance for Engineers(ECON204)			2	2	0	3	5	SYE	216	Cost Engineering (<i>ECON 204</i>)			2	2	0	3	5
ISE	323	Operations Research II(<i>ES 233, ISE 222</i>)			3	2	0	4	7	SYE	323	Probabilistic Models in OR (<i>ES 233, SYE 222</i>)			3	2	0	4	6
ISE	XX2	Restricted Elective II			3	0	0	3	5	SYE/ ES	261	Intr. to Manufacturing Techniques (<i>PHYS 101</i>)			3	1	0	3	4
ISE	311	<i>Information Technologies (ES 112)</i>			2	1	2	3	6	SYE	346	Management Information Systems (<i>ES 112</i>)			2	2	0	3	6
ISE	361	Production Systems Design (<i>ISE 222, ES 233</i>)			2	0	2	3	5	ES	301	Engineering Management			3	0	0	3	4
HTR	301	History of Turkish Revolution I			2	0	0	2	2	HTR	301	History of Turkish Revolution I			2	0	0	2	2
					18	30							18	26					
SIXTH SEMESTER						SIXTH SEMESTER													
	T	U	L	Y	E		T	U	L	Y	E								
ISE	302	Systems Engineering Methods (SYE 403)			3	0	1	3	6	SYE	403	Systems Design and Control(<i>SYE 353</i>)			2	0	2	3	6
ISE	344	Simulation (<i>ISE 323, ISE 252</i>)			2	0	2	3	5	SYE	344	Simulation Modeling (<i>SYE 323,SYE 242</i>)			2	0	2	3	6
ISE	XX3	Restricted Elective III			3	0	0	3	5	SYE	365	Thermodynamics / Restricted Elective			2	0	2	3	6
ISE	352	Linear Systems & Control(<i>MATH 241</i>)			2	2	0	3	5	SYE	353	Linear Control Systems (<i>MATH 241</i>)			2	2	0	3	6
ISE	362	Supply Chain Management (<i>ISE 222, ES 233</i>)			3	0	2	4	7	SYE	366	Production and Service Systems Design (<i>SYE 222, SYE 242</i>)			3	2	0	4	6
HTR	302	History of Turkish Revolution II			2	0	0	2	2	HTR	302	History of Turkish Revolution II			2	0	0	2	2
					18	30							18	32					
SEVENTH SEMESTER						SEVENTH SEMESTER													
	T	U	L	Y	E		T	U	L	Y	E								
ISE	401	System Dynamics and Modeling (<i>ISE 302, ISE352</i>)			3	0	2	4	7	SYE	473	Engineering Systems Analysis			3	0	0	3	6
ISE	XX4	Restricted Elective IV			3	0	0	3	5	SYE	XX1	Restricted Elective I			3	0	0	3	5
ISE	XX5	Restricted Elective V			3	0	0	3	5	SYE	XX2	Restricted Elective II			3	0	0	3	5
FE	XXX	Free Elective			3	0	0	3	3	FE	XXX	Free Elective			3	0	0	3	3
ISE	451	Statistical Quality Control (<i>ISE 252</i>)			2	2	0	3	5	SYE	446	Quality Control (<i>SYE 242</i>)			2	2	0	3	5
LAW	491	Law For Engineers			3	0	0	3	4	LAW	491	Law For Engineers			3	0	0	3	4
SYE	400	Summer Practice			0	2	0	0	1	SYE	400	Summer Practice			0	2	0	0	1
					18	30							18	32					
EIGHTH SEMESTER						EIGHTH SEMESTER													
	T	U	L	Y	E		T	U	L	Y	E								
ISE	402	System Design (<i>ISE 302</i>) (<i>SYE 328</i>)			3	1	0	3	6	SYE	328	Project Management and Network Theory			2	2	0	3	6
ISE	432	<i>Decision Analysis (ISE 252 & ISE 323)</i>			2	1	1	3	6	SYE	432	<i>Decision Theory (SYE 222 & SYE 242)</i>			2	2	0	3	7
ISE	XX6	Restricted Elective VI			3	0	0	3	5	SYE	XX3	Restricted Elective III			3	0	0	3	5
ISE	492	Engineering Project (<i>Senior Standing</i>)			1	0	4	3	8	SYE	492	Engineering Project (<i>Senior Standing</i>)			1	0	4	3	8
ISE	XX7	Restricted Elective VII			3	0	0	3	5	SYE	XX4	Restricted Elective IV			3	0	0	3	5
										SYE	XX5	Technical Elective V			3	0	0	3	5
					15	30							15	28					

Öğrencinin hangi müfredattan mezun olacağına karar verme kriteri: MATH154, SYE 261, SYE365 derslerini tamamlamış ve 5 adet teknik seçmeli dersin tümüne kayıt yaptırmış olan (**F ve/veya W dahil**) öğrenciler eski müfredat (2013 BAHAR DÖNEMİ ve ÖNCESİ YÜRÜRLÜKTE OLAN) esaslarına göre mezun olurlar.