

UNDERGRADUATE CURRICULUM 2024				
Course		Credits	AKTS	
FIRST TERM				
MATH 141 Basic Calculus I		(3-2) 4		5
PHYS 121 General Physics I		(3-2) 4		7
CHEM 121 General Chemistry I		(3-0)3		5
CHEM 141 General Chemistry Lab. I		(0-2)1		2
ENG 101 Development of Reading and Writing Skills I		(3-0) 3		3
CHE 101 Introduction to Chemical Engineering		(2-0) 2		5
TOTAL		17		27
Second Term				
		Credits		AKTS
MATH 142 Basic Calculus II		(3-2) 4		6
PHYS 122 General Physics II		(3-2) 4		8
CHEM 122 General Chemistry II		(3-0) 3		5
CHEM 142 General Chemistry Lab. II		(0-2)1		2
CHE 102 Computer Tools in Engineering		(3-2) 4		4
ENG 102 Development of Reading and Writing Skills II	(3-0) 3	3	(3-0)3	3
GCC 101 Career Planning And Development	(2-0) NC	2	(2-0) NC	2
TOTAL		19		30
Third Term				
		Credits		AKTS
MATH 255 Differential Equations		(4-0) 4		6
CHE 201 Material and Energy Balances in Engineering		(3-0) 3		5
CHEM 221 Organic Chemistry		(4-0) 4		5
ECON 205 Principles of Economics		(3-0) 3		4
MBG 101 Biology I		(3-0) 3		5
*Restricted Elective		(3-0) 3		4
HIST 201 Principles of ATATÜRK		(2-0)NC		2
TURK 201 Turkish Language		(2-0) NC		2
TOTAL		20		33
Fourth Term				
		Credits		AKTS
CHE 210 Numerical Methods in Engineering		(3-2)4		5
CHE 220 Thermodynamics I		(3-0)3		5
CHE 222 Fluid Mechanics (PREREQUISITES: MATH 255)		(4-0)4		5
BE 208 Biochemistry		(3-0)3		5
*Restricted Elective		(3-0)3		4
HIST 202 Principles of ATATÜRK II		(2-0) NC		2
TURK 202 Turkish Language II		(2-0) NC		2
TOTAL		17		28
Fifth Term				
		Credits		AKTS
CHEM 321 Physical Chemistry		(3-0) 3		4
CHE 311 Heat and Mass Transfer (PREREQUISITES: CHE 201)		(3-2) 4		5
CHE 321 Thermodynamics II		(3-0) 3		5
MSE 211 Materials Science and Engineering		(3-0) 3		5
CHE 301 Technical Writing for Chemical Engineer		(3-0) 3		3
*Non-Technical Elective		(3-0) 3		3
Compulsory Elective (CHE 300 Summer Practice I)		NC		8
TOTAL		19		33

Sixth Term		
	Credits	AKTS
CHE 302 Chemical Kinetics and Reactor Design	(4-0) 4	6
CHE 310 Chemical Engineering Lab. I	(0-4) 2	5
CHE 312 Separation Processes (PREREQUISITES: CHE 311)	(3-2) 4	5
CHE 330 Mathematical Modelling in Engineering	(3-0) 3	5
*Non-Technical Elective	(3-0) 3	3
Technical Elective	(3-0) 3	4
TOTAL	19	28
Seventh Term		
	Credits	AKTS
CHE 402 Process Dynamics and Control	(3-0) 3	5
CHE 410 Chemical Engineering Lab. II	(0-4) 2	5
CHE 420 Engineering Economics and Design (PREREQUISITES: CHE 302 and CHE312)	(2-4) 4	8
*Technical Elective	(3-0) 3	4
*Technical Elective	(3-0) 3	4
Compulsory Elective (CHE 400 Summer Practice II)	NC	8
TOTAL	15	34
Eight Term		
	Credits	AKTS
Restricted Elective		
CHE 411 Chemical Engineering Lab. III (PREREQUISITES: CHE 312 and CHE 302)	(0-4) 2	8
CHE 421 Engineering Design (PREREQUISITES: CHE 420)	(2-4) 4	8
* Nontechnical Elective	(3-0) 3	3
*Technical Elective	(3-0) 3	4
* Technical Elective	(3-0) 3	4
MAN 211 Corporate Communication and Management Skills for Engineers	(3-0)NC	3
TOTAL	15	30
GENERAL TOTAL	141	243