Department of Metallurgical and Materials Engineering Undergraduate Curriculum

ATACS Curriculum Name: "MATE-CUR-2016-2017 Güz Dönemi-1"

(valid for students who started the program between Fall 2016 and Spring 2020 semesters)

Course Code	Course Name	Credit	ECTS			
1. Semester						
PHYS101	General Physics I	4	6			
MFGE108 (ME108)	Computer Aided Solid Modeling		4			
MATH157	Extended Calculus I		7,5			
ENG101	English For Academic Purposes I		3,5			
CEAC103 (CHE103)	General Chemistry I		5			
HIST111	Principles of Atatürk and History of Turkish Revolution I		2			
MATE103	Introduction to Metallurgical and Materials Engineering and Z Materials Industry		2			
2. Semester						
MATH158	Extended Calculus II	5	7,5			
ENG102	English for Academic Purposes II	3	3,5			
PHYS102	General Physics II	4	6			
HIST112			2			
CMPE102	Computer Programming	2 3	4			
HIST221	History of Civilization	3	3			
CEAC104 (CHE104)	General Chemistry II	3	4,5			
3. Semester			.,.			
ENG201	English for Academic Purposes III	3	3			
ME211	Statics and Strength of Materials	3	6			
MATH275	Linear Algebra	4	6			
MATE201	Fundamentals of Materials Engineering	3	5			
MATE203	Thermodynamics of Materials I		5			
MATE-AE2FA1	Area Elective (1)	3	5			
4. Semester						
MATE202	Mechanical Behavior and Testing of Materials	3	6,5			
MATE204	Thermodynamics of Materials II	3	5,5			
MATH276	Differential Equations	4	6			
ENG202	English for Academic Purposes IV	3	3			
MATE-AE2SP1	Area Elective (2)	3	5			
MATE-GE2SP1	General Elective (1)	3	4			
5. Semester						
MATE301	Fundamentals and Applications of Mechanical Shaping	4	6			
MATE303	Chemical Principles in Production of Metals	3	5,5			
MATE311	Ceramics and Refractory Materials	3	5			
MATE313	Phase Transformations and Kinetic Processes in Materials	3	5,5			
MATE-GE3FA1	General Elective (2)	3	4			
MATE399	Summer Practice I	0	6			
ENG301	English for Occupational Purposes I	3	3			

Course Code	Course Name	Credit	ECTS		
6. Semester	6. Semester				
MATE310	Polymeric Materials	3	5		
MATE312	Iron and Steel Production Technologies	3	5		
MATE314	Microstructure and Phase Relations	2	6		
MATE316	Solidification Processes	2	5,5		
MATE318	Materials Characterization	2	5,5		
ENG302	English for Occupational Purposes II	3	3		
7. Semester					
TURK401	Turkish Language I	2	2		
MATE499	Summer Practice II	0	6		
MATE409	Undergraduate Research	1	3		
MATE-AE4FA1	Area Elective (3)	3	5		
MATE-AE4FA2	Area Elective (4)	3	5		
MATE-AE4FA3	Area Elective (5)	3	5		
MATE-AE4FA4	Area Elective (6)	3	5		
MATE-GE4FA1	General Elective (3)	3	4		
8. Semester					
TURK402	Turkish Language II	2	2		
MATE404	Metallic Materials	3	5		
MATE410	Material Selection in Design	2	9		
MATE420	Graduation Project	1	9		
MATE-AE4SP1	Area Elective (7)	3	5		