

Faculty of Science and Literature
Department of Mathematics

2017/2018 Course List									
1. YARIYIL									
Katalog No	Ders Kodu	Ders Adı	Zor/Seç	Ders Dili	T	L	U	Ders Saat	AKTS
9905005	AIT111	Atatürk's Principles and History of Turkish Revolution	Compulsory Course	Turkish	2	0	0	2	2
9907003	ENF113	Practices in Basic Information Technologies	Compulsory Course	Turkish	2	0	1	3	2
9901005	TDB109	Turkish Language I	Compulsory Course	Turkish	2	0	0	2	2
9501003	FEF115	Physics I	Compulsory Course	Turkish	3	0	1	4	4
0105125	MAT101	Analysis I	Compulsory Course	English	4	0	2	6	5
0105124	MAT103	Linear Algebra I	Compulsory Course	Turkish	3	0	1	4	3
0105148	MAT107	Professional English I	Compulsory Course	English	2	0	0	2	2
0105126	MAT105	Abstract Mathematics I	Compulsory Course	Turkish	3	0	0	3	3
Compulsory Course AKTS Toplamı									30
1. YARIYIL AKTS TOPLAMI									30
2. YARIYIL									
Katalog No	Ders Kodu	Ders Adı	Zor/Seç	Ders Dili	T	L	U	Ders Saat	AKTS
9905006	AIT112	Atatürk's Principles and History of Turkish Revolutions II	Compulsory Course	Turkish	2	0	0	2	2
9907004	ENF114	Basic Computer Sciences	Compulsory Course	Turkish	3	0	1	4	3
9901006	TDB110	Turkish Language II	Compulsory Course	Turkish	2	0	0	2	2
9501004	FEF116	Physics II	Compulsory Course	Turkish	3	0	1	4	3
0105128	MAT102	Analysis II	Compulsory Course	English	4	0	2	6	5
0105127	MAT104	Linear Algebra II	Compulsory Course	Turkish	3	0	1	4	3
0105149	MAT108	Professional English II	Compulsory Course	English	2	0	0	2	2
0105129	MAT106	Abstract Mathematics II	Compulsory Course	Turkish	3	0	0	3	3
Compulsory Course AKTS Toplamı									30

2. YARIYIL AKTS TOPLAMI										30
3. YARIYIL										
Katalog No	Ders Kodu	Ders Adı	Zor/Seç	Ders Dili	T	L	U	Ders Saat	AKTS	
0105123	MAT201	Analytic Geometry I	Compulsory Course	Turkish	2	0	1	3	2	4
0105132	MAT203	Differential Equations I	Compulsory Course	English	2	0	1	3	2	5
0105130	MAT205	Advanced Analysis I	Compulsory Course	Turkish	4	0	2	6	5	7
0105182	MAT211	History of Mathematics	Compulsory Course	Turkish	2	0	0	2	2	3
0105150	MAT209	Professional English III	Compulsory Course	English	2	0	0	2	2	2
0105284	MAT207	Probability	Compulsory Course	Turkish	2	0	0	2	2	3
Compulsory Course AKTS Toplamı										24
		University Elective I								6
3. YARIYIL AKTS TOPLAMI										30
4. YARIYIL										
Katalog No	Ders Kodu	Ders Adı	Zor/Seç	Ders Dili	T	L	U	Ders Saat	AKTS	
0105134	MAT202	Analytic Geometry II	Compulsory Course	Turkish	2	0	1	3	2	4
0105153	MAT208	Computer Programming	Compulsory Course	Turkish	2	0	1	3	2	3
0105133	MAT204	Differential Equations II	Compulsory Course	English	2	0	1	3	2	5
0105131	MAT206	Advanced Analysis II	Compulsory Course	Turkish	4	0	2	6	5	7
0105285	MAT212	Statistics	Compulsory Course	Turkish	3	0	0	3	3	3
0105151	MAT210	Professional English IV	Compulsory Course	English	2	0	0	2	2	2
Compulsory Course AKTS Toplamı										24
		University Elective II								6
4. YARIYIL AKTS TOPLAMI										30
5. YARIYIL										
Katalog No	Ders Kodu	Ders Adı	Zor/Seç	Ders Dili	T	L	U	Ders Saat	AKTS	
0105135	MAT301	Algebra I	Compulsory Course	Turkish	3	0	0	3	3	5
0105137	MAT303	Differential Geometry I	Compulsory Course	Turkish	2	0	1	3	3	4
0105139	MAT305	Complex Analysis I	Compulsory Course	English	3	0	0	3	3	5
0105143	MAT307	Numerical Analysis I	Compulsory Course	Turkish	3	0	0	3	3	5

0105141	MAT309	Topology I	Compulsory Course	English	3	0	0	3	3	5
Compulsory Course AKTS Toplamı										24
0105286	MAT319	Teaching Methods in Mathematics I	Elective Course Group I	Turkish	3	0	0	3	3	6
0105293	MAT311	The Ethics of Science	Elective Course Group I	Turkish	3	0	0	3	3	6
0105292	MAT313	Scientific Writing Techniques	Elective Course Group I	Turkish	3	0	0	3	3	6
0105294	MAT315	Bridge	Elective Course Group I	Turkish	3	0	0	3	3	6
0109255	FEL325	Introduction to Philosophy	Elective Course Group I	Turkish	3	0	0	3	3	6
0105288	MAT323	Introduction to Coding Theory	Elective Course Group I	Turkish	3	0	0	3	3	6
0105287	MAT321	Professional English V	Elective Course Group I	Turkish	3	0	0	3	3	6
En Az 6 AKTS Ders Seçilebilir			Seçmeli Ders Grup I AKTS Toplamı						6	
5. YARIYIL AKTS TOPLAMI										30
6. YARIYIL										
Katalog No	Ders Kodu	Ders Adı	Zor/Seç	Ders Dili	TL	U	Ders Saat	AKTS		
0105136	MAT302	Algebra II	Compulsory Course	Turkish	3	0	0	3	3	5
0105138	MAT304	Differential Geometry II	Compulsory Course	Turkish	2	0	1	3	3	4
0105140	MAT306	Complex Analysis II	Compulsory Course	English	3	0	0	3	3	5
0105144	MAT308	Numerical Analysis II	Compulsory Course	Turkish	3	0	0	3	3	5
0105142	MAT310	Topology II	Compulsory Course	English	3	0	0	3	3	5
Compulsory Course AKTS Toplamı										24
0105289	MAT320	Teaching Methods in Mathematics II	Elective Course Group II	Turkish	3	0	0	3	3	6
0105295	MAT312	Scientific Software Programs	Elective Course Group II	Turkish	3	0	0	3	3	6
0109256	FEL314	Aesthetics	Elective Course Group II	Turkish	3	0	0	3	3	6
0105291	MAT324	Introduction to Cryptology	Elective Course Group II	Turkish	3	0	0	3	3	6
0105296	MAT316	Research Methods and Techniques in Mathematics	Elective Course Group II	Turkish	3	0	0	3	3	6
0105290	MAT322	Professional English VI	Elective Course Group II	Turkish	3	0	0	3	3	6
0105297	MAT318	Introduction to Game Theory	Elective Course Group II	Turkish	3	0	0	3	3	6
En Az 6 AKTS Ders Seçilebilir			Seçmeli Ders Grup II AKTS Toplamı						6	

6. YARIYIL AKTS TOPLAMI										30
7. YARIYIL										
Katalog No	Ders Kodu	Ders Adı	Zor/Seç	Ders Dili	T	L	U	Ders Saat	AKTS	
0105152	MAT403	Matlab	Compulsory Course	English	2	0	1	3	2	5
0105145	MAT401	Real Analysis	Compulsory Course	English	3	0	0	3	3	5
0105179	MAT405	Seminar I	Compulsory Course	Turkish	0	0	2	2	1	2
Compulsory Course AKTS Toplamı										12
0105229	MAT431	History of Science	Elective Course Group III	Turkish	3	0	0	3	3	6
0105156	MAT407	Selected Topics in Algebra	Elective Course Group III	Turkish	3	0	0	3	3	6
0105158	MAT409	Algebraic Topology	Elective Course Group III	Turkish	3	0	0	3	3	6
0105188	MAT425	Fibonacci Numbers and Applications	Elective Course Group III	Turkish	3	0	0	3	3	6
0105160	MAT411	Introduction to Fuzzy Mathematics	Elective Course Group III	Turkish	3	0	0	3	3	6
0105167	MAT413	Selected Topics in Geometry	Elective Course Group III	Turkish	3	0	0	3	3	6
0105163	MAT429	Orthogonal Polynomials	Elective Course Group III	Turkish	3	0	0	3	3	6
0105224	MAT423	Topological Groups	Elective Course Group III	Turkish	3	0	0	3	3	6
0105162	MAT421	Applied Mathematics	Elective Course Group III	Turkish	3	0	0	3	3	6
En Az 12 AKTS Ders Seçilebilir			Seçmeli Ders Grup III AKTS Toplamı						12	
0105171	MAT427	Integral Equations	Elective Course Group IV	English	3	0	0	3	3	6
0105191	MAT415	Linear Dynamic Systems	Elective Course Group IV	English	3	0	0	3	3	8
0105161	MAT417	Matrix Analysis and Applications	Elective Course Group IV	English	3	0	0	3	3	6
0105168	MAT419	Metric Spaces	Elective Course Group IV	English	3	0	0	3	3	6
En Az 6 AKTS Ders Seçilebilir			Seçmeli Ders Grup IV AKTS Toplamı						6	
7. YARIYIL AKTS TOPLAMI										30
8. YARIYIL										
Katalog No	Ders Kodu	Ders Adı	Zor/Seç	Ders Dili	T	L	U	Ders Saat	AKTS	
0105146	MAT402	Functional Analysis	Compulsory Course	English	3	0	0	3	3	5
0105147	MAT404	Partial Differential Equations	Compulsory Course	English	3	0	1	4	3	5

0105180	MAT406	Seminar II	Compulsory Course	Turkish	0	0	2	2	1	2
Compulsory Course AKTS Toplamı										12
0109228	FEL434	Bilim Felsefesi (Matematik)	Elective Course Group V	Turkish	3	0	0	3	3	6
0105172	MAT408	Finance Mathematics	Elective Course Group V	Turkish	3	0	0	3	3	6
0105178	MAT428	Fortran	Elective Course Group V	Turkish	2	0	1	3	2	6
0105186	MAT410	Graph Theory and Applications	Elective Course Group V	Turkish	3	0	0	3	3	6
0105164	MAT412	Rings and Modules	Elective Course Group V	Turkish	3	0	0	3	3	6
0105173	MAT430	Discrete Mathematics	Elective Course Group V	Turkish	3	0	0	3	3	6
0105165	MAT414	Manifolds	Elective Course Group V	Turkish	3	0	0	3	3	6
0105170	MAT416	Mathematical Modelling	Elective Course Group V	Turkish	3	0	0	3	3	6
0105192	MAT418	Matlab Applications	Elective Course Group V	Turkish	2	0	1	3	2	6
0105187	MAT420	Matrix Theory	Elective Course Group V	Turkish	3	0	0	3	3	6
0105155	MAT432	Number Theory	Elective Course Group V	Turkish	3	0	0	3	3	6
0105190	MAT422	Topology and Fractal Geometry	Elective Course Group V	Turkish	3	0	0	3	3	6
0105159	MAT424	Selected Topics in Topology	Elective Course Group V	Turkish	3	0	0	3	3	6
0105169	MAT426	Topological Vector Spaces	Elective Course Group V	Turkish	3	0	0	3	3	6
En Az 18 AKTS Ders Seçilebilir			Seçmeli Ders Grup V AKTS Toplamı						18	
8. YARIYIL AKTS TOPLAMI										30

Üniversite Ortak Dersi

Üniversite Seçmeli Dersi

Fen - Edebiyat Fakültesi Ortak Dersi

Matematik Bölümü Dersi