

DOKUZ EYLÜL ÜNİVERSİTESİ
FEN FAKÜLTESİ
KİMYA BÖLÜMÜ ÖĞRENCİLERİ İÇİN
MATEMATİK BÖLÜMÜ
ÇİFT ANADAL PROGRAMI
ANADAL: KİMYA BÖLÜMÜ
ÇİFT ANADAL: MATEMATİK BÖLÜMÜ

Alınacak Toplam
Ders AKTSsi 222

18

BİRİNCİ YIL GÜZ DÖNEMİ

MATEMATİK ÇİFT ANADAL ÖĞRETİM PLANI

KİMYA PROGRAMINDA EŞLENİĞİ

DERSİN KODU	DERSİN ADI	KREDİ BİLGİSİ		
		T	U	AKTS
ATA 1001	Principles of Atatürk and History of the Turkish Revolution I	2	0	2
KPD 1001	Career Planning	1	0	2
MAT 1015	Technical English I	3	0	3
MAT 1031	Calculus I	4	2	9
MAT 1033	Fundamental of Mathematics I	4	0	7
MAT 1035	Analytic Geometry	4	0	7
TOPLAM		18	2	30

DERSİN KODU	DERSİN ADI	KREDİ BİLGİSİ		
		T	U	AKTS
ATA 1001	Principles of Atatürk and History of the Turkish Revolution I	2	0	2
KPD 1001	Career Planning	1	0	2
TOPLAM		3	0	4

BİRİNCİ YIL BAHAR DÖNEMİ

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KİMYA PROGRAMINDA EŞLENİĞİ

DERSİN KODU	DERSİN ADI	KREDİ BİLGİSİ		
		T	U	AKTS
ATA 1002	Principles of Atatürk and History of the Turkish Revolution II	2	0	2
MAT 1012	Technical English II	3	0	4
MAT 1032	Calculus II	4	2	9
MAT 1034	Basic Algebraic Structures	4	0	7
MAT 1036	Discrete Mathematics	4	0	6
	Elective Course	2	0	2
SEÇMELİ DERSLER ELECTIVE COURSES				
BDE 1003	Physical Education	2	0	2
GSH 1003	Folk Dancing	2	0	2
GSM 1003	Music	2	0	2
GSR 1003	Painting	2	0	2
TOPLAM		19	2	30

DERSİN KODU	DERSİN ADI	KREDİ BİLGİSİ		
		T	U	AKTS
ATA 1002	Principles of Atatürk and History of the Turkish Revolution II	2	0	2
	Elective Course	2	0	2
SEÇMELİ DERSLER ELECTIVE COURSES				
BDE 1003	Physical Education	2	0	2
GSH 1003	Folk Dancing	2	0	2
GSM 1003	Music	2	0	2
GSR 1003	Painting	2	0	2
TOPLAM		4	0	4

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DERSİN KODU	DERSİN ADI	KREDİ BİLGİSİ		
		T	U	AKTS
CSC 2201	Algorithms And Programming	2	2	5
MAT 2037	Linear Algebra I	4	0	7
MAT 2039	Diferential Equations I	4	0	7
MAT 2043	Analysis I	4	2	9
TDL 1001	Turkish Language I	2	0	2
	TOPLAM	16	4	30

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DERSİN KODU	DERSİN ADI	KREDİ BİLGİSİ		
		T	U	AKTS
TDL 1001	Turkish Language I	2	0	2
	TOPLAM	2	0	2

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DERSİN KODU	DERSİN ADI	KREDİ BİLGİSİ		
		T	U	AKTS
MAT 2038	Linear Algebra II	4	0	7
MAT 2040	Differential Equations II	4	0	7
MAT 2042	Computer Algebra Systems	2	2	5
MAT 2044	Analysis II	4	2	9
TDL 1002	Turkish Language II	2	0	2
	TOPLAM	16	4	30

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DERSİN KODU	DERSİN ADI	KREDİ BİLGİSİ		
		T	U	AKTS
TDL 1002	Turkish Language II	2	0	2
	TOPLAM	2	0	2

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DERSİN KODU	DERSİN ADI	KREDİ BİLGİSİ		
		T	U	AKTS
MAT 3049	Introduction To Topology	4	0	7
MAT 3051	Diferential Geometry	4	0	7
MAT 3055	Algebra I	4	0	7
MAT 3059	Numerical Analysis I	4	0	7
	Flexible Elective Course	2	0	2
	TOPLAM	18	0	30

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DERSİN KODU	DERSİN ADI	KREDİ BİLGİSİ		
		T	U	AKTS
	Flexible Elective Course	2	0	2
	TOPLAM	2	0	2

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DERSİN KODU	DERSİN ADI	KREDİ BİLGİSİ		
		T	U	AKTS
MAT 3054	Complex Calculus	4	0	6
MAT 3056	Partial Diferential Equations	4	0	6
	Elective Course	4	0	7
	Elective Course	4	0	7
	Flexible Elective Course	2	0	2
	Flexible Elective Course	2	0	2
	SEÇMELİ DERSLER ELECTIVE COURSES			
CSC 3202	Object Oriented Programming	4	0	7
MAT 3008	Numerical Analysis II	4	0	7
MAT 3026	Special Functions and Diff. Eqns.	4	0	7
MAT 3042	Advanced Differential Geometry	4	0	7
MAT 3046	Algebra II	4	0	7
MAT 3053	Real Analysis I	4	0	7
MAT 3058	Probability	4	0	7
	TOPLAM	20	0	30

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DERSİN KODU	DERSİN ADI	KREDİ BİLGİSİ		
		T	U	AKTS
	Flexible Elective Course	2	0	2
	Flexible Elective Course	2	0	2
	SEÇMELİ DERSLER ELECTIVE COURSES			
	TOPLAM	4	0	4

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KİMYA PROGRAMINDA EŞLENİĞİ

DERSİN KODU	DERSİN ADI	KREDİ BİLGİSİ			DERSİN KODU	DERSİN ADI	KREDİ BİLGİSİ		
		T	U	AKTS			T	U	AKTS
	Elective Course	4	0	7					
	Elective Course	4	0	7					
	Elective Course	4	0	7					
	Elective Course	4	0	7					
	Flexible Elective Course	2	0	2		Flexible Elective Course	2	0	2
	SEÇMEÜ DERSLER ELECTIVE COURSES					SEÇMEÜ DERSLER ELECTIVE COURSES			
CSC 4201	Visual Programming Techniques	4	0	7					
MAT 4011	Numerical Sol. of Ord. Diff. Eqns.	4	0	7					
MAT 4013	Applied Mathematics I	4	0	7					
MAT 4019	Asymptotic Analysis	4	0	7					
MAT 4029	Theory of Manifolds	4	0	7					
MAT 4031	General Topology	4	0	7					
MAT 4033	Nonlinear Diff. Equations and Dyn. Sys.	4	0	7					
MAT 4035	Math. Methods in Comp. Aided Geo. Design	4	0	7					
MAT 4043	Elementary Algebraic Geometry	4	0	7					
MAT 4045	Galois Theory	4	0	7					
MAT 4047	Applied Optimization	4	0	7					
MAT 4049	Elementary Algebraic Topology	4	0	7					
MAT 4051	Graph Theory	4	0	7					
MAT 4053	Algebraic Number Theory	4	0	7					
MAT 4057	Life Insurance Mathematics	4	0	7					
MAT 4059	Introduction to Functional Analysis	4	0	7					
MAT 4065	Computational Commutative Algebra I	4	0	7					
MAT 4067	Commutative Ring Theory	4	0	7					
MAT 4069	Advanced Math. Problem Solving Tech. for Olympiads	4	0	7					
MAT 4071	Computational Mathematics I	4	0	7					
MAT 4073	Guided Undergraduate Research I	4	0	7					
MAT 4075	History of Mathematics	4	0	7					
MAT 4077	Mathematics for Machine Learning I	4	0	7					
PHY 4165	Intermediate Classical Mechanics	4	0	7					
PHY 4166	Introduction to Quantum Mechanics	4	0	7					
STA 4201	Statistical Methods	4	0	7					
	TOPLAM	4	0	7					

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		T	U	AKTS			T	U	AKTS
	Elective Course	4	0	7					
	Elective Course	4	0	7					
	Elective Course	4	0	7					
	Elective Course	4	0	7					
	Flexible Elective Course	2	0	2		Flexible Elective Course	2	0	2
	SEÇMEÜ DERSLER ELECTIVE COURSES					SEÇMEÜ DERSLER ELECTIVE COURSES			
CSC 4202	Computer Programming for Data Management	4	0	7					
MAT 4008	Perturbation Techniques	4	0	7					
MAT 4010	Modules and Rings	4	0	7					
MAT 4012	Elementary Topology and Geometry	4	0	7					
MAT 4014	Applied Mathematics II	4	0	7					
MAT 4016	Riemannian Geometry	4	0	7					
MAT 4024	Numerical Solution of Partial Diff. Equations	4	0	7					
MAT 4030	Difference Equations	4	0	7					
MAT 4034	Nonlinear Partial Differential Equations	4	0	7					
MAT 4038	Principles of Economics	4	0	7					
MAT 4044	Math. Modeling and Its Philosophy	4	0	7					
MAT 4046	Measure Theory and Lebesgue Integral	4	0	7					
MAT 4054	Financial Mathematics	4	0	7					
MAT 4058	Topological Vector Spaces	4	0	7					
MAT 4060	Introduction to Mathematical Biology	4	0	7					
MAT 4062	Introduction to Representation Theory	4	0	7					
MAT 4064	Number Theory	4	0	7					
MAT 4066	Computational Commutative Algebra II	4	0	7					
MAT 4068	Geometry	4	0	7					
MAT 4070	Project	2	4	7					
MAT 4072	Computational Mathematics II	4	0	7					
MAT 4074	Guided Undergraduate Research II	4	0	7					
MAT 4076	Mathematical Fundamentals of Robotics	4	0	7					
MAT 4078	Mathematics for Machine Learning II	4	0	7					
	TOPLAM	4	0	7					

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SEÇMELİ DERSLER

MATEMATİK ÇİFT ANADAL ÖĞRETİM PLANI

FAKÜLTE SEÇMELİ DERSLER FLEXIBLE ELECTIVE COURSES		T	U	AKTS
FSH 0001	Communication Skills	2	0	2
FSH 0002	Professional Values and Ethics	2	0	2
FSH 0003	Philosophy (History of Ideas)	2	0	2
FSH 0004	Philosophy of Science	2	0	2
FSH 0005	Introduction to Psychology	2	0	2
FSH 0006	History of Science	2	0	2
FSH 0007	Solution of Interpersonal Conflicts	2	0	2
FSH 0008	Science in Daily Life	2	0	2
FSH 0009	Multisided Thinking	2	0	2
FSH 0010	Interdisciplinarity: Science, Art, Game	2	0	2
FSH 0011	Creativity, Rd, Innovation	2	0	2
FSH 0012	Future Planning and Strategy	2	0	2
FSH 0013	Youth Entrepreneurship	2	0	2
FSH 0014	Geopolitics of Turkey	2	0	2
FSH 0015	Globalization and the New World Order	2	0	2
FSH 0016	Anatolian Civilizations	2	0	2
FSH 0017	Cultural History of the Aegean	2	0	2
FSH 0018	Museum and Art	2	0	2
FSH 0019	Discourse Analysis	2	0	2
FSH 0020	Management	2	0	2
FSH 0021	Economics	2	0	2
FSH 0022	Accounting	2	0	2
FSH 0023	Marketing	2	0	2
FSH 0024	Basic Law	2	0	2
FSH 0025	Money and Banking	2	0	2
FSH 0026	Total Quality and Accreditation	2	0	2
FSH 0027	History of Turkish Education	2	0	2
FSH 0028	Flowering Plants. Nature's Healing Hands	2	0	2
FSH 0029	Basic Banking and Information Technologies	2	0	2
FSH 0030	Technical English	2	0	2
FSH 0031	Translation	2	0	2
FSH 0032	Text Analysis	2	0	2
FSH 0033	Semantics	2	0	2
FSH 0034	Terminology and Terminography	2	0	2
FSH 0035	Financial Economics	2	0	2
FSH 0036	Economic Globalization	2	0	2
FSH 0037	Foreign Language Russian I	2	0	2
FSH 0038	Foreign Language Russian II	2	0	2
FSH 0040	Chemistry and Art	2	0	2
FSH 0041	Quantum Era	2	0	2
FSH 0042	Basic Statistics	2	0	2
FSH 0043	Reflections on Modernlife	2	0	2
FSH 0044	Scientific Writing with Latex	2	0	2
FSH 0045	Introduction to Programming with Python	2	0	2
FSH 0046	Zoogeography	2	0	2
FSH 0047	Creating Reports and Presentations by Office Programs	2	0	2
FSH 0048	Excel for Business World	2	0	2
FSH 0049	İklim Değişikliğinin Biyolojik Etkileri	2	0	2
FPE 0049	Soft Computing Techniques	2	2	5
FPE 0050	Software Project Management	3	0	5
FPE 0051	Biological Impacts of Climate Change	3	0	6
FPE 0052	Human Anatomy and Physiology	2	0	6
FPE 0053	Quantum Physics for Everyone	2	2	7
FPE 0054	Dark Matter and Mysterious of the Universe I	2	2	7
FPE 0055	Time Series Models	4	0	0
FPE 0056	Estimation and Hypothesis Testing	4	0	6
FPE 0059	Discrete Mathematics and Its Applications	3	0	5
FPE 0060	Proof Techniques	2	0	2
FPE 0062	Understanding Life With Codes and Their Readings	3	0	5
FPE 0063	Material Chemistry	3	0	6
FPE 0064	Nanomaterials and Medical Applicatons	3	0	6
GÇD 1000	Gönüllülük Çalışmaları	1	2	4
IHD 1002	Human Rights	2	0	4

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FAKÜLTE SEÇMELİ DERSLER FLEXIBLE ELECTIVE COURSES		T	U	AKTS
FSH 0001	Communication Skills	2	0	2
FSH 0002	Professional Values and Ethics	2	0	2
FSH 0003	Philosophy (History of Ideas)	2	0	2
FSH 0004	Philosophy of Science	2	0	2
FSH 0005	Introduction to Psychology	2	0	2
FSH 0006	History of Science	2	0	2
FSH 0007	Solution of Interpersonal Conflicts	2	0	2
FSH 0008	Science in Daily Life	2	0	2
FSH 0009	Multisided Thinking	2	0	2
FSH 0010	Interdisciplinarity: Science, Art, Game	2	0	2
FSH 0011	Creativity, Rd, Innovation	2	0	2
FSH 0012	Future Planning and Strategy	2	0	2
FSH 0013	Youth Entrepreneurship	2	0	2
FSH 0014	Geopolitics of Turkey	2	0	2
FSH 0015	Globalization and the New World Order	2	0	2
FSH 0016	Anatolian Civilizations	2	0	2
FSH 0017	Cultural History of the Aegean	2	0	2
FSH 0018	Museum and Art	2	0	2
FSH 0019	Discourse Analysis	2	0	2
FSH 0020	Management	2	0	2
FSH 0021	Economics	2	0	2
FSH 0022	Accounting	2	0	2
FSH 0023	Marketing	2	0	2
FSH 0024	Basic Law	2	0	2
FSH 0025	Money and Banking	2	0	2
FSH 0026	Total Quality and Accreditation	2	0	2
FSH 0027	History of Turkish Education	2	0	2
FSH 0028	Flowering Plants. Nature's Healing Hands	2	0	2
FSH 0029	Basic Banking and Information Technologies	2	0	2
FSH 0030	Technical English	2	0	2
FSH 0031	Translation	2	0	2
FSH 0032	Text Analysis	2	0	2
FSH 0033	Semantics	2	0	2
FSH 0034	Terminology and Terminography	2	0	2
FSH 0035	Financial Economics	2	0	2
FSH 0036	Economic Globalization	2	0	2
FSH 0037	Foreign Language Russian I	2	0	2
FSH 0038	Foreign Language Russian II	2	0	2
FSH 0040	Chemistry and Art	2	0	2
FSH 0041	Quantum Era	2	0	2
FSH 0042	Basic Statistics	2	0	2
FSH 0043	Reflections on Modernlife	2	0	2
FSH 0044	Scientific Writing with Latex	2	0	2
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FSH 0046	Zoogeography	2	0	2
FSH 0047	Creating Reports and Presentations by Office Programs	2	0	2
FSH 0048	Excel for Business World	2	0	2
FSH 0049	İklim Değişikliğinin Biyolojik Etkileri	2	0	2
FPE 0049	Soft Computing Techniques	2	2	5
FPE 0050	Software Project Management	3	0	5
FPE 0051	Biological Impacts of Climate Change	3	0	6
FPE 0052	Human Anatomy and Physiology	2	0	6
FPE 0053	Quantum Physics for Everyone	2	2	7
FPE 0054	Dark Matter and Mysterious of the Universe I	2	2	7
FPE 0055	Time Series Models	4	0	0
FPE 0056	Estimation and Hypothesis Testing	4	0	6
FPE 0059	Discrete Mathematics and Its Applications	3	0	5
FPE 0060	Proof Techniques	2	0	2
FPE 0062	Understanding Life With Codes and Their Readings	3	0	5
FPE 0063	Material Chemistry	3	0	6
FPE 0064	Nanomaterials and Medical Applicatons	3	0	6
GÇD 1000	Gönüllülük Çalışmaları	1	2	4
IHD 1002	Human Rights	2	0	4