

<b>DERS BİLGİLERİ FORMU</b>	
<b>Dersi Açan Fakülte/ Enstitü</b>	İktisadi İdari Bilimler Fakültesi
<b>Dersi Açan Bölüm/ Ana Bilim Dalı</b>	İktisat
<b>Dersin Kodu</b>	ECON 261
<b>Dersin Adı</b>	Mathematics For Economists
<b>Öğretim Dili</b>	İngilizce
<b>Dersi Alan Programlar</b>	Economics, Mathematics...
<b>Ders Türü</b>	Zorunlu
<b>Dersin Seviyesi</b>	Lisans 2. Sınıf
<b>AKTS Kredisi</b>	6
<b>Ön Koşullar</b>	Students should have successfully completed MAT 103 or ECON 105 prior to taking this course.
<b>Dersin İçeriği</b>	This course intends to introduce the basic mathematical tools used in economics with their applications. Mathematical preliminaries and their use in several economics problems will be of interest.
<b>Dersin Amacı</b>	Linear algebra, constrained and un-constrained optimization will be the main subjects of the course.
<b>Dersin Kazanımları</b>	Matrix Linear Algebra, Differentiation, Static Optimization under constraints, Dynamic Lagrange Method, Dynamic Programming and Bellman Equation and Economic Applications
<b>Ders Kitabı ve/veya Kaynaklar</b>	Klein, M. W., Mathematical Methods for Economics, 2nd ed., Addison Wesley, 2002. (K) Chiang, A. and K. Wainwright, Fundamental Methods of Mathematical Economics, 4th ed, McGraw-Hill Irwin, 2005. (CW) Simon, C. P. and L. Blume, Mathematics for Economists, 1st ed. Sundaram, R.K., A First Course in Optimization Theory, Cambridge University Press, 1996.
<b>Değerlendirme Ölçütleri</b>	<b>Katkı payı</b>
<b>Devam</b>	
<b>Laboratuvar</b>	
<b>Uygulama</b>	
<b>Alan Çalışması</b>	
<b>Ödev</b>	15%
<b>Sunum</b>	
<b>Projeler</b>	
<b>Seminer</b>	
<b>Ara Sınavlar</b>	MT-30%
<b>Quiz</b>	15%
<b>Final</b>	40%
<b>Toplam</b>	100%
<b>Ders Planı</b>	<b>Tartışılacak/ İşlenecek Konular</b>
<b>1. Hafta</b>	Matrix Linear Algebra
<b>2. Hafta</b>	Matrix Linear Algebra
<b>3. Hafta</b>	Matrix Linear Algebra
<b>4. Hafta</b>	Review of functions, differentiation etc.
<b>5. Hafta</b>	Static Optimization
<b>6. Hafta</b>	Static Optimization
<b>7. Hafta</b>	Static Optimization
<b>8. Hafta</b>	Static Optimization
<b>9. Hafta</b>	Static Optimization
<b>10. Hafta</b>	Introduction to dynamic optimization in discrete-time: Dynamic Lagrange method
<b>11. Hafta</b>	Introduction to dynamic programming and Bellman equation; and economic applications
<b>12. Hafta</b>	Introduction to dynamic programming and Bellman equation; and economic applications