## Date:

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<th>Date</th>
<th>Topics</th>
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<td>Jan. 27</td>
<td>Chap. 4 Matrix Algebra (4.1, 4.2, 4.4-4.6)</td>
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<td>Chap. 5 Inverse Matrix and Cramer's Rule (5.2, 5.4-5.6)</td>
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<td>Feb. 10</td>
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<td>Feb. 17</td>
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<td>Feb. 24</td>
<td>Chap. 7 Marginal Function and Average Function (7.1-7.2)</td>
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<td>Mar. 3</td>
<td>Chap. 7 Golden Rules of Differentiation and their use (7.3-7.6)</td>
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<td>Mar. 10</td>
<td>Chap. 8 Total Differential and Elasticity of Demand (8.1-8.4)</td>
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<td>Mar. 15</td>
<td>The First Test (Chap. 3, 4, 5, 6, 7) - 30%</td>
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<td>Mar. 17</td>
<td>Chap. 8 Comparative Static Analysis of the IS-LM model (8.5-8.6)</td>
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<td>Mar. 29</td>
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<td>Apr. 5</td>
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<td>Apr. 28</td>
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<td>Substitution (12.5, 12.6)</td>
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<td>May 17</td>
<td>FINAL EXAM (Chap. 3-12) 40%</td>
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### Notes:

1. Test dates are firm. Please prepare long before the test.
2. If you are going to miss, or have missed the test, hand in a written statement to the instructor.
3. **PLEASE COME IN AND TALK WITH YOUR INSTRUCTOR ABOUT ANY PROBLEM RELATED TO THE COURSE.**

Office: to be announced  
Office Hours: T, Th: 3:00-4:00 or by appointment  
Office Telephone: to be announced
References for Econ 480/580, Section 1

R.G.D. Allen: Mathematical Analysis for Economists, St. Martin's Press, 1938. Paperback edition available. This is a classic work which every economist, whether or not he is interested in Mathematical Economics, must be acquainted with. A must for graduate students.


T. Yamane: Mathematics for Economists: An Elementary Survey, Prentice Hall, 1962. Good exposition of basic quantitative methods (differentiation, matrix, statistics). Fewer economic applications. There are many other textbooks on mathematics for economists. Most of them are survey type with more emphasis in techniques than economic applications. The following texts emphasize applications.

Textbooks on Micro and Macroeconomics which use more Mathematics

T.F. Dernburg and J.D. Dernburg, Macroeconomic Analysis, An Introduction to Comparative Statics and Dynamics, Addison-Wesley, 1969. For the first year graduate students.

Textbooks on Calculus Recommended
G.B. Thomas: Calculus and Analytic Geometry, Addison-Wesley.
T.M. Apostol: Calculus, V.I., VII.

The following materials can be obtained at Kinko's
1. Sample problem set
2. Sample test
Homework for Econ. 480/580 Sec. 2  
Introduction to Mathematical Economics  

Exercise  

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* Important Economic Applications  
( ) Materials not covered in class
Homework for Econ. 480/580 Sec. 1
Introduction to Mathematical Economics

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* Important Economic Applications
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Required for graduate students (Econ. 580)