# Syllabus

<table>
<thead>
<tr>
<th>Date</th>
<th>Topics</th>
<th>Assignment Due</th>
</tr>
</thead>
</table>
| 1. 5/17 | Course Objectives & Description  
Review of Basic Statistical Ideas  
Simple Linear Regression  
Workshop: Stock Betas, All-Around Movers |                                                     |
| 2. 5/30 | Simple Linear Regression  
Bottom part of the output  
Hypothesis Testing of the slope and intercept  
Interval Estimation for the slope and intercept | Case: Stock Betas  
Case: All-Around Movers  
Also: Team Roster |
| 3. 5/31 | Workshop: Cigarettes (A), Insurance                                     |                                                     |
| 4. 6/13 | Multiple Regression  
Analysis of Variance  
Middle part of the output  
Nonlinear Models  
More multiple regression  
Top part of the output | Case: Cigarettes (A)  
Case: Insurance  
Also: Project Proposal |
| 5. 6/27 | Qualitative Independent Variables  
Matrix algebra methods  
Residual Analysis  
Multicollinearity and other Problems |                                                     |
| 6. 6/28 | Workshop: Cigarettes (B), Cars (A) and (B)                              |                                                     |
| 7. 7/11 | Model Building  
Forecasting                                                            | Case: Cigarettes (B)  
Case: Cars (A) and (B) |
| 7/25-26 | No Class                                                               |                                                     |
| 8. 8/1  | Workshop: Artsy, Steam Plant                                            |                                                     |
| 9. 8/2  | Cluster and Discriminant Analysis  
Binary Dependent Variables                                               | Case: Artsy  
Case: Steam Plant |
| 10. 8/16 | Student Project Consultations                                           |                                                     |
| 11. 8/22 | Student Project Presentations                                           |                                                     |

[ CBS Home Page | B7114 Home Page | Syllabus | Downloads ]
[ Description | Mission | David Juran Home Page | Projects | About the Instructor ]

dj114@columbia.edu

http://www.columbia.edu/~dj114/7114syl.htm