Standard Course Outline
FIN 630 Seminar in Financial Forecasting

1. **General Information:**
   Units: 3 credits
   Prerequisites: FIN 600
   SCO prepared by: Dr. Xiaoying Chen
   Date Prepared: September 2011

2. **Catalog Description:**
   Research projects in industry, individual company, product and commodity areas. Computer applications required.

3. **Curriculum Justification:**
   The course is aligned with the CBA learning goals of critical thinking, business functions, quantitative and technical skills.

4. **Course Objectives:**
   **Skill- and Content-specific Goals** of this course are:
   
   **Critical Thinking**
   Students will be able to integrate their conceptual and theoretical knowledge and apply forecasting methods to corporate, industry, and macro-economic data.

   **Business Functions:**
   Students will learn to analyze cash budget, capital budgeting, capital structure in corporations, make efficient frontier and manage investment portfolios, and evaluate other economic data.

   **Quantitative and Technical Skills:**
   We will make extensive use of computer-based empirical exercises. Students will possess quantitative and technical skills enabling them to make predictions. Students will demonstrate that they can make decisions based on quantitative analysis using the principles, concepts, and techniques through their performance on exams, homework assignments, and research projects.

5. **Outline of Subject Matter:**
   Topics to be covered in this class typically include:

<table>
<thead>
<tr>
<th>Topics</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Cash Budget</td>
</tr>
<tr>
<td>2 Forecasting Financial Statement</td>
</tr>
<tr>
<td>3 Capital Budgeting with Uncertainty</td>
</tr>
<tr>
<td>Regression Analysis</td>
</tr>
<tr>
<td>4.1 Simple Linear Regression</td>
</tr>
<tr>
<td>4.2 Multiple Linear Regression: Predict president election</td>
</tr>
<tr>
<td>4.3 Non-linear Regression</td>
</tr>
</tbody>
</table>
4.3.1 Exponential Growth
4.3.2 Power Growth:
4.3.3 Quadratic Regression Model
4.3.4 Moving Average
4.3.5 Autoregressive Model

5 Monte Carlo Simulation

6. Methods of Instruction:

Instructors in planning the exams, and other grading procedures, should adhere to the relevant University Policy on “Grades, Grading Procedures, and Final Assessments, Final Course.”

The textbooks for this course should be chosen in accordance with the University Policy on textbooks.

Recommended Textbooks:

**Suggested Reading:**
Financial Analysis with Microsoft Excel 2007, Timothy R. Mayes and Todd M. Shank, 5th edition,

**Advanced Reading:**

7. Instructional Policies:

Instructors may specify their own policies with regard to grading, class-room behavior, make-up exam, withdrawal, academic integrity, absences, etc., as long as these policies are consistent with the University policies.

The students are expected to comply with the universally accepted norms of considerate and courteous behavior, and with all University rules and policies found in the current University Catalog. It will be assumed that the students will adhere to the tenets of academic integrity as articulated in Dean’s Letter on Academic Integrity throughout this course.

**Students with Disabilities:** Students with disabilities are responsible for notifying their instructor as early as possible of their needs for an accommodation of a verified disability. A student with a disability is urged to consult with Disabled Student Services as soon as possible in order to identify possible accommodations to enhance academic success.