Main Topics

1. Stochastic Systems
2. Simulation and Performance Evaluation
3. Linear Programming
4. Optimization Modeling
5. Integer Programming

Format

The exam is closed book, but students may bring into the exam a single page of notes (both sides of an 8.5 × 11 page). The exam has a total of six questions. Students are required to answer five of the six questions within the four hour period.

Recommended Textbooks

1. Stochastic Systems

2. Performance Evaluation/Simulation

3. Linear Programming

4. Optimization Modeling

5. Integer Programming
**Recommended Course**

ISyE 524  Introduction to Optimization  
ISyE 525  Linear Programming  
ISyE 620  Simulation Modeling and Analysis  
ISyE 624  Stochastic Modeling Techniques  
ISyE 632  Introduction to Stochastic Modeling  
ISyE 643  Performance Analysis of Manufacturing Systems  
ISyE 720  Integer Programming

*Note: Taking one of ISyE 624, ISyE632, or ISyE643 should be sufficient to prepare for the stochastic systems portion of the exam.*

**Participating Faculty**

<table>
<thead>
<tr>
<th>Name</th>
<th>Office</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professor Alagoz</td>
<td>3242</td>
<td>890-0399</td>
</tr>
<tr>
<td>Professor Bier</td>
<td>3234</td>
<td>262-2064</td>
</tr>
<tr>
<td>Professor Krishnamurthy</td>
<td>3258</td>
<td>890-2236</td>
</tr>
<tr>
<td>Professor McLay</td>
<td>3218</td>
<td>262-3002</td>
</tr>
<tr>
<td>Professor Linderoth (Coordinator)</td>
<td>3226</td>
<td>890-1931</td>
</tr>
<tr>
<td>Professor Luedtke</td>
<td>3236</td>
<td>890-2560</td>
</tr>
<tr>
<td>Professor Shi</td>
<td>3250</td>
<td>265-5969</td>
</tr>
</tbody>
</table>