UNIVERSITY OF TORONTO
TIME SERIES ANALYSIS STA457H1 S

COURSE OUTLINE

INSTRUCTOR: JEN-WEN LIN, PH.D.
OFFICE HOURS/LOCATION: 0530--0600PM BEFORE CLASS, MSB 3153.
CLASS TIME/PLACE: MONDAY AND WEDNESDAY 6-9 PM, MSB 3153
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COURSE DESCRIPTION

This course provides an introduction to time series analysis with finance applications. The techniques can also be applied to other disciplines. After finishing this course, students are expected to gain hands-on knowledge on how to analyze and model time series data. Topics in this course include fundamental concepts of time series, Box-Jenkins methods (ARIMA models), and multivariate time series analysis (transfer function model, co-integration, etc.), and State space model and Kalman filter.

WEIGHTING SCHEME

<table>
<thead>
<tr>
<th>Scheme</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Midterm test</td>
<td>40%</td>
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<tr>
<td>Assignment</td>
<td>20%</td>
</tr>
<tr>
<td>Final exam</td>
<td>40%</td>
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If students miss the midterm test with a legitimate reason, his/her weight on the midterm test will be shifted to the final exam—20% from assignment and 80% from the final exam.
TEXTBOOK (OPTIONAL)


REFERENCE BOOKS