STAT-IEOR W4150  
Introduction to Probability and Statistics

Instructor: Prof. Victor H. de la Peña

Textbook:
Probability and Statistics for Engineers and Scientists; 7th Ed.
by R. E. Walpole, R. H. Myers, S. L. Myers and K. Ye

Time and Place: Tuesday and Thursday 4:10-5:25 207 Math

Instructor Office Hours: Tuesday and Thursday 9:15-10:00 AM
Office: 1255 Amsterdam Avenue (between 121st and 122nd st), Room 1027 (10th Floor).
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TA Shouhao Zhou Office: Room 1021 (same building)
TA Office Hours: Monday 5:00-6:00PM and Thursday 5:40-6:40PM
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This course is a self-contained introduction to probability and statistics. The prerequisite for the
course is calculus (up to multivariate integration).
The topics covered include. Fundamentals of probability theory and statistical inference.
Probabilistic models, random variables, useful distributions, expectations, weak law of large
numbers, central limit theorem. Statistical inference: point and confidence interval estimation,
method of maximum likelihood, hypothesis tests and linear regression if time permits.
We will follow the book in order covering Ch 1-10 and if time permits parts of Ch 11, skipping a
few sections.

Grades will be assigned on a curve, by using the following percentages:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Homework</td>
<td>15%</td>
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<tr>
<td>2 or 3 quizzes (drop lowest)</td>
<td>20%</td>
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<tr>
<td>One Midterm</td>
<td>30%</td>
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<tr>
<td>Final</td>
<td>35%</td>
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No make-up midterm will be given. If you miss the midterm, your grade will be determined
entirely by assigning a weight of 65% to your final exam. However, for this you will need to have a
regular record of attending class, handing in Hw. and quizzes.

No late Homework will be accepted. To compensate for this, we will drop the lowest homework
score.
Normally, homework will be due on Tuesday at 4:10PM.