STATISTICS FOR ECONOMISTS
ECON 404

Instructor: Neslihan Uler  
E-mail: neslihan@umich.edu  
Office: 214 Lorch Hall  
Phone: 734-763-6633  
Lectures: Tue and Thur, 11:30AM-1:00PM, B844 East Hall  
Office Hours: Mon-Thur 3:00PM-4:00PM and/or by appointment

This course provides an introduction to statistics. Topics include probability, sampling distributions, hypothesis testing, estimation, and simple regression.

Required book:


Recommended books:

- Probability and Statistical Inference, 8th Edition, by Hogg and Tanis

All books are on the library reserve for your convenience.

Grades:

Assignment (15%)  
Midterms (25% each)  
Final (35%)

Classes: You are required to attend classes. Powerpoint slides will be posted before each class. However, these slides only offer guidance and do not provide a comprehensive overview of the lectures. You are expected to take notes during class. In addition, after each class you will have reading assignments from Anderson, Sweeney and Williams.

Exams: There are two midterms and a final exam. The midterms will be administered on October 13 and November 12. The final exam is scheduled for Wednesday, December 16 from 1:30 PM to 3:30 PM. All exams will be given in B844 East Hall. Exams are closed-book. However, you can bring one 8.5 × 11 note card for exams. You can use one side for midterms, and both sides for the final exam. A basic non-graphing calculator is allowed in the exams. Programmable calculators, cell phone calculators or calculators that perform functions beyond basic math will not be allowed. Please note that there will be no make-up exams unless you have a documented proof of special circumstances (i.e. illness).
**Re-grade Policy:** Within one week of receiving your exam, you can submit a neatly written or typed note explaining your questions. I will re-grade your exam by taking your concerns into consideration. Note that you are not guaranteed a higher grade with re-grading; in fact, it is possible for your grade to be lowered through the re-grading process.

**Homework:** There will be weekly assignments. Homework assignments are due on Tuesdays by the end of class. Further, to ensure prompt grading, late assignments will not be graded. In order to allow for illness (including a possible flu outbreak), personal and family issues, overwork due to other classes, or any other reason, the lowest two assignment grades will not be counted. Any problems with grading should be addressed to your GSI. These requests must be made within one week of their return.

**Special Accomodations:** If you feel you need an accommodation based on the impact of a disability, contact the instructor privately to discuss your specific needs. Students with disabilities should also contact the Office of Services with Disabilities to determine appropriate accomodations.

**Flu Outbreak:** Stay home when ill. Should you become ill and need to miss classes for several days, contact me directly to request an accommodation. Lecture notes will be posted on CTools for your convenience.

**Class Schedule (Tentative):**

<table>
<thead>
<tr>
<th>Lectures</th>
<th>Subject</th>
<th>Lectures</th>
<th>Subject</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Data, Measurement and Statistics</td>
<td>9</td>
<td>Continuous Probability Distributions</td>
</tr>
<tr>
<td>2</td>
<td>Descriptive Statistics</td>
<td>10</td>
<td>Sampling Distributions</td>
</tr>
<tr>
<td>3</td>
<td>Mean, Median, Mode and Dispersion</td>
<td>11</td>
<td>Point Estimation</td>
</tr>
<tr>
<td>4</td>
<td>Covariance, Correlation and Weighted Mean</td>
<td>12</td>
<td>Interval Estimation</td>
</tr>
<tr>
<td>5</td>
<td>Probability</td>
<td>13</td>
<td>Hypothesis Testing</td>
</tr>
<tr>
<td>6</td>
<td>Bayes’ Theorem</td>
<td>14</td>
<td>Inference</td>
</tr>
<tr>
<td>7</td>
<td>Discrete Probability Distributions</td>
<td>15</td>
<td>Regression and Correlation</td>
</tr>
<tr>
<td>8</td>
<td>Binomial and Poisson Distributions</td>
<td>16</td>
<td>Multiple Regression</td>
</tr>
</tbody>
</table>