## Learning Outcome Assessment Matrix

<table>
<thead>
<tr>
<th>Overarching Goal</th>
<th>Desired Learning Outcome</th>
<th>Teaching Methods</th>
<th>Assessments</th>
</tr>
</thead>
<tbody>
<tr>
<td>(broad, generalized statements about what is to be learned)</td>
<td>(narrow, specific statements about concrete, measurable skills or content to be gained in the course)</td>
<td>(teaching strategies aimed at building desired knowledge or skills)</td>
<td>(tools and strategies that analyze student performance and products as evidence of teaching effectiveness)</td>
</tr>
</tbody>
</table>

| • Introduction to basic statistical concepts | • Ability to calculate mean, median, and mode | • Read Chapter 1  
• Lecture (calculate examples from outside of the book on a tablet device)  
• Clicker activity | • Solve 10 Homework problems from the textbook |

| • Introduction to basic statistical skills | • Ability to plot line charts, bar charts, and scatter plots | • Read Chapter 2  
• Lecture with power point slides  
• Student activity | • Complete worksheet plotting various charts  
• Weekly online quiz |

| • Introduction to basic statistical reasoning | • Ability to assess statistical charts | • Lecture with power point slides  
• Student pairing activity discussing merits of various charts | • Write a 500 word essay on two opposing reports regarding student volunteerism  
• Midterm Exam |