Homework makes up a hefty 20% of the grade. These problems are taken from the textbook "Probability and Statistics for Engineering and the Sciences, 8th ed." by Jay L. Devore, Brooks / Cole 2012. All starred (*) problems are to be turned in. Homework from Wednesday, Friday and Monday will be due Friday. Late homework that is up to one week late will receive half credit. Homework that is more than one week late will receive no credit at all. Homework that is placed in the reader's mailbox before 5:00pm Friday will be considered on time. Our homework reader is ?. His mailbox is in JWB 228 in the back corner.

Your solutions must be self-contained. Please copy or paraphrase the problem. Your solutions must include some explanation. The answers given in the back or in the solutions manual will not be adequate. You will not receive any points just for copying the solution from the manual.

### Schedule

<table>
<thead>
<tr>
<th>Day</th>
<th>Section</th>
<th>Topic</th>
<th>Problems</th>
</tr>
</thead>
<tbody>
<tr>
<td>M, Aug. 22</td>
<td>1.1-2</td>
<td>Terminology, Tabular Meth.</td>
<td>24[10,12*,18*,24*,26*]</td>
</tr>
<tr>
<td></td>
<td></td>
<td>to be handed in Friday, Aug. 26.</td>
<td></td>
</tr>
<tr>
<td>W, Sept. 2</td>
<td>2.4</td>
<td>Conditional Prob.</td>
<td>80[48*,49*,51*,56,62*,68*]</td>
</tr>
<tr>
<td></td>
<td>2.5</td>
<td>Independence</td>
<td>86[74*,75*,76*,78*,80*]</td>
</tr>
<tr>
<td>M, Oct.  3</td>
<td>4.4</td>
<td>Continuous R. V.'s</td>
<td>142[1*,2*,4*,6*]</td>
</tr>
<tr>
<td></td>
<td>4.5</td>
<td>Other Distributions</td>
<td>177[73*,77*,84*]</td>
</tr>
<tr>
<td></td>
<td>4.6</td>
<td>Probability QQ-Plots</td>
<td>187[88*,91*]</td>
</tr>
</tbody>
</table>
M       10      
W       12      
F       14      
M       17      

--- Jointly Dist. R.V.'s ---
104[1*,6*,18*]

--- to be handed in Friday, Oct. 28. ---

N       19 M
F       21  
M       24      

--- SECOND MIDSEMESTER EXAM ---

F  21  5.2  Covariance & Correlation  211[22*,25*,26*,30*]
M  24  5.3  Statistics & their Dists.  222[38*,41*,44*]

--- to be handed in Friday, Nov. 4. ---

M  26  5.4  Sample Mean Dist.  229[46*,47*,53*,55*]
F  28  5.5  Dist. of Lin. Comb.  233[59*,61*,69*,72*]
M  31  6.1  Point Estimation  252[1*,3,8*,13*]

--- to be handed in Friday, Nov. 11. ---

N , Nov. 2 Q  7.1  Confidence Intervals  275[3*,5*,7*,9*,11*]
F  4  7.2  C. I. for Pop. Mean  283[13*,15*,17*,19*,21*]
M  7  7.3  Intervals for Normal Pops.  292[30*,32*,33*,35*,37*]

--- to be handed in Friday, Nov. 18. ---

N  9  7.4  C. I. for Variance & S. D.  296[44*,46*]
F 11  8.1  Hypothesis Testing  308[7*,9*,11*]

--- to be handed in Friday, Dec. 2. ---

N 16 M  
F 18  8.3  Tests about Pop. Prop.  327[37*,39*,40*,42*]
M 21  8.4  P-Values  337[50*,52*,54*,59*]
N 22  8.5  Selecting a Test  341[63*]
F 25  ***  Thanksgiving Day Holiday  ***
M 28  9.1  Z-Test*, Compare two means  354[3*,5*,7*,9*,13*]

--- to be handed in Friday, Dec. 9. ---

N 30 Q  9.2  Two-Sample t-Test  362[21*,23bc*,25*,28*,33*]
F, Dec. 2 9.3  Paired Data  371[39*,40*,43*]
M  5  9.4  Compare Two Proportions  380[49*,52*,53*,55*]
N  7  9.5  Compare Two Variances  385[63*,65*]
F  9  

--- Review ---

Mon., Dec. 12  F  FINAL EXAM  8:00 - 10:00 AM, in BEH S 114