<table>
<thead>
<tr>
<th>Date</th>
<th>Activity</th>
<th>Reading/Article</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wed May 18</td>
<td>Principles of speed and accuracy</td>
<td>Chapter 7, pp 223-239</td>
</tr>
<tr>
<td>Fri May 20</td>
<td><strong>DUE: Draft paper for PEER REVIEW 2</strong> Handedness &amp; hemispheric specialization</td>
<td></td>
</tr>
<tr>
<td>Mon May 23</td>
<td><strong>PEER REVIEW 2</strong> (review in class) Definitions and Overview of Muscle Contraction Central and sensory contributions</td>
<td>Chapter 5 and Chapter 6</td>
</tr>
<tr>
<td>Wed May 25</td>
<td>Central and sensory contributions</td>
<td>af’Klint et. al article</td>
</tr>
<tr>
<td>Fri May 27</td>
<td><strong>DUE: REVIEW PAPER</strong> Posture Coordination</td>
<td>Chapter 8. pp 263-289</td>
</tr>
<tr>
<td>Mon May 30</td>
<td><strong>HOLIDAY</strong></td>
<td></td>
</tr>
<tr>
<td>Wed June 1</td>
<td>Vision and motor control</td>
<td></td>
</tr>
<tr>
<td>Fri June 3</td>
<td>Vision and motor control Practice for Final</td>
<td></td>
</tr>
</tbody>
</table>

**Textbook:** Chapters 5, 6, 7, 8

**Required research articles**


**Optional background reading**


Bring this Handout to class during Unit 3
OUTLINE FOR UNIT 3: MOTOR CONTROL

I. Principles of speed and accuracy
   A. Speed and spatial accuracy in hitting targets
      1. Fitts' Law: Logarithmic Speed-Accuracy tradeoff
      2. Schmidt's Law: Linear Speed-Accuracy tradeoff
   B. Movement timing tasks
   C. Anticipatory timing tasks

II. Handedness and hemispheric specialization for motor control
   A. Terminology/anatomy/methods
   B. Handedness
   C. Specialized skills for the right and left hands (right-handed person)
   D. Hemispheric specialization and motor control

III. Definitions and Overview of Muscle Contraction

IV. Central and sensory contributions to motor control
   A. Overview
   B. The role of the reflex in motor control
      1. Review of the stretch reflex
      2. Is there an influence from instructions (intention/goal)?
      3. Is there an influence from vision that permits anticipation?
      4. Does the reflex vary based on the context within a task?
      5. Stretch reflex built into voluntary movements
   C. Single joint movements /fine tuning the three burst pattern
   D. Correction in coordinative structures
   E. Vision and correction
   F. Vision and feed forward
   G. Motor control options if sensory information is missing

V. Posture
   A. Postural adjustment component of voluntary movement
   B. Preprogrammed corrections of vertical posture

VI. Coordination
   A. Bimanual coordination
   B. Manual and vocal/oral coordination
   C. Reaching and grasping

VII. Vision and motor control
   A. Vision for developing motor coordination in very young children
   B. Examples from sport