**Biocore 485: Organismal Biology Fall 2014**

<table>
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<tr>
<th>Lecture#-Day</th>
<th>Date</th>
<th>Instructor</th>
<th>Topic</th>
<th>Reading</th>
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<td>1-T</td>
<td>Sept. 2</td>
<td>Harris/Team</td>
<td>Course Introduction; key physiological concepts</td>
<td>Chapter 12: pp. 295-298</td>
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<td>Sept. 8</td>
<td>Discussion</td>
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<td>Alarid</td>
<td>*Endocrine System 2: Hypothalamic-Pituitary &amp; Axis Control Systems</td>
<td>Chapter 16: pp. 427-436</td>
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<td>4-R</td>
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<td>Alarid</td>
<td>Endocrine System 3: Hormonal Control of Reproduction</td>
<td>Chapter 17: pp. 468-481</td>
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<td>*Endocrine System 4: Dual Hormone Control System</td>
<td>Chapter 16: pp. 436-448</td>
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<td>Endocrine System 5: Making Logical Conclusions based on Evidence</td>
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<td>7-T</td>
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<td>Johnson</td>
<td>Neurobiology 1: Membrane Potential</td>
<td>Chapter 12: pp. 295-312</td>
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<td>Johnson</td>
<td>*Neurobiology 3: Synaptic Transmission, Neuroplasticity</td>
<td>Chapter 13: pp. 327-357 (only portions discussed in class)</td>
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<td>Cardiovascular Structure &amp; Dynamics</td>
<td>Chapter 25: pp. 655-661</td>
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<td>Osmo2: Regulation of Water and Salt Physiology</td>
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<td>12:25 - 2:25pm</td>
<td>Tuesday Dec. 16</td>
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<td>Final exam: lectures 23-29 + Integrative Questions</td>
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* 9 graded in-class group problems
Textbooks

- Plant Physiology (5th edition) by Taiz & Zeiger 2010
- Becker's World of the Cell 8e (2012) by Hardin, Bertoni, and Kleinsmith (Benjamin Cummings)