**BIBB 233**  
*Neurobiology of Behavior*  
*Fall 2013*  
*Tuesday/Thursday 1:30-3:00*

Instructor: Judith McLean, Ph.D.  
Office: B27 Solomon Psych Laboratories  
Email: jmclean@sas.upenn.edu  
Office Hours: by appointment

<table>
<thead>
<tr>
<th>Date</th>
<th>Lecture</th>
<th>Readings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aug 8/29</td>
<td>Introduction to Neurobiology of Behavior</td>
<td>Ch. 1</td>
</tr>
<tr>
<td>Sept 9/3</td>
<td>Evolutionary and Comparative approaches to Behavior and the Nervous System</td>
<td></td>
</tr>
</tbody>
</table>

**II SENSORY PROCESSING**

9/5 Introduction to Auditory Processing

9/10 Echolocation in Bats: Behavior  
9/12 Echolocation in Bats: Neural Mechanisms  
| 9/17 Sound Localization in Barn Owls  
  | Dr. Marc Schmidt, Department of Biology  
| 9/19 Sound Localization in Barn Owls  
  | Dr. Marc Schmidt, Department of Biology  
9/24 Introduction to Visual Processing  
9/26 Feature analysis in Toads  
| Oct 10/1 Feature analysis in Toads  
| 10/3 Jamming Avoidance Response in weakly electric fish: Behavior  
| 10/8 **EXAM I**  
| 10/10 **FALL BREAK**  
| 10/15 Jamming Avoidance Response in weakly electric fish: Neural Mechanisms  

**III MOTOR STRATEGIES**

10/17 Introduction to Motor Strategies
Synopsis:
Neurobiology of Behavior: An introduction to the experimental analysis of natural animal behavior, and its neurobiological basis. Behavior is examined in an evolutionary and ecological context, and questions are focused on the neural processes that allow animals to carry out critical activities such as locating prey and finding mates. The course is comparative and strives to identify common principles in sensory and motor processing and brain function. Prerequisite: BBB109

Grading:
3 Exams each worth 100 points

Required readings:

Supplemental readings:
Lectures and supplemental readings will be posted on Canvas
https://courseweb.library.upenn.edu/