Instructor: Judith McLean, Ph.D.
Office: B27 Solomon Psych Laboratories
Email: jmclean@sas.upenn.edu
Office Hours: Wednesday 4-5

Teaching Assistant: Jill Sorcher
Office: D23 Solomon Psych Laboratories
Email: jsorcher@sas.upenn.edu
Office Hours: Thursday 3-4

<table>
<thead>
<tr>
<th>Date</th>
<th>Lecture</th>
<th>Readings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aug 8/28</td>
<td>Introduction to Neuroethology</td>
<td>Ch. 1</td>
</tr>
<tr>
<td>Sept 9/2</td>
<td>Evolutionary and Comparative approaches to Behavior and the Nervous System</td>
<td>Breedlove, Ch. 6</td>
</tr>
</tbody>
</table>

**I FOUNDATIONS**

Aug 9/9 | Echolocation in Bats: Behavior | Ch. 2 pp 35-47
Aug 9/11 | Echolocation in Bats: Neural Mechanisms | Ch. 2 pp 48-58
Sept 9/16 | Sound Localization in Barn Owls | Suga, 1990
- Dr. Marc Schmidt, Department of Biology
Sept 9/18 | Sound Localization in Barn Owls | Ch. 3 pp 70-92
- Dr. Marc Schmidt, Department of Biology
Sept 9/23 | Introduction to Visual Processing | Knudsen, 2002
Sept 9/25 | Feature analysis in Toads | Ewert, 1974
Sept 9/30 | Feature analysis in Toads | Ch. 4
Oct 10/2 | Review |
Oct 10/7 | EXAM I (through 9/30) |
Oct 10/9 | FALL BREAK |
Synopsis:
Neuroethology: 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

Weekly essays: Every Thursday I will provide you with 1-2 essay questions based on the readings. You will compose a ~½ page typed (double spaced) answer to each question in Microsoft Word. You will have 7 days to submit your responses. Questions will be available on the course website and will be graded by the TA.

Grading:
3 Exams each worth 30%. Weekly written responses to essay questions worth a total of 10% of your grade.

Required readings:
  Supplemental readings:
  Supplemental readings will be posted on Canvas
  https://courseweb.library.upenn.edu/