BIOS 486: ANIMAL BEHAVIOR AND NEUROETHOLOGY
FALL 2017
Tu, Th 2:00 - 4:20
Room 4068 SELE

COURSE PRE-REQUISITES: EITHER BIOLOGY OF THE BRAIN BioS 286 OR PHYSIOLOGICAL PSYCHOLOGY PSCH 262

COORDINATOR:
Dr. Thomas Park
Biological Sciences 4284 SEL
312-413-3020
tpark@uic.edu

OTHER INSTRUCTORS: Dr. John Leonard (leonard@uic.edu) ; Dr. Chieh Chang (chiehc@uic.edu)

TEACHING ASSISTANT: Brigitte Browe (bbrowe2@uic.edu)

OFFICE HOURS: Arranged with the instructors at a mutually agreed upon time.

SUGGESTED READINGS: Assigned on Blackboard, see announcements
Additional Supplementary Books Available in 4068 SEL: “Animal Behavior” by John Alcock, Nerve cells and Animal Behavior by Peter Simmons, and David Young
Book on reserve at Daley Library: “Bird Sense” by Tim Birkhead

SUGGESTED Web sites: ebird.org ; allaboutbirds.org

GOALS AND OBJECTIVES: To deepen student’s hands on experience of the neural basis of behavior in a variety of animals.

ATTENDANCE:
Attendance is expected at all scheduled meetings;
Students are able to drop a course without penalty through Friday of the ninth week of the semester. Late drops are subject to the College of LAS rules and students should consult with the College advisor (996-3366).

GRADING: Each student's final grade will be computed from total points obtained from:
1 Birdsong Quiz completion
3 lab reports
1 article presentation
1 essay final exam
## SYLLABUS:

### Wk. 1 Park
Aug 29  Introduction
Aug 31  Cricket Neuroethology

### Wk. 2 Leonard
Sep 5  Birds Field Lab
Sep 7  Local field trip UIC to Arrigo Park

### Wk. 3 Park/Leonard
Sep 12  Bird Migration / Bats & Owls
Sep 14  Visit Primate Facility for Lab

### Wk. 4 Park
Sep 19  Naked mole-rat neuroethology
Sep 21  CB1 intro / formalin test

### Wk. 5 Park
Sep 26  Rodent Lab
Sep 28  Rodent Lab

### Wk. 6 Park
Oct 3  Rodent Lab
Oct 5  Rodent Lab

### Wk. 7 Leonard
Oct 10  Long-distance migration
Oct 12  Birdsong learning

### Wk. 8 Leonard
Oct 17  Local Field Trip UIC to Arrigo Park
Oct 19  Comer Neuroscience Seminar

### Wk. 9 Leonard/Chang
Oct 24  Bus Field Trip to Montrose Point
Oct 26  Neural circuit mechanism of aggression in *Drosophila*

### Wk. 10 Chang
Oct 31  Neural circuit mechanism of aggression in *Drosophila*
Nov 2  Neural circuit mechanism of aggression in mice

### Wk. 11 Chang
Nov 7  Male mating behavior in the nematode worm *C. elegans*
Nov 9  *C. elegans* lab

### Wk. 12 Chang
Nov 14  Odorant-mediated navigation behavior in *C. elegans*
Nov 16  *C. elegans* lab
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<tr>
<th>Wk. 13 Chang</th>
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<tr>
<td>Nov 21</td>
<td>Charlie Rose: The Brain series on Aggression</td>
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<td>Nov 23</td>
<td><strong>THANKSGIVING HOLIDAY</strong></td>
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<tr>
<td>Nov 28</td>
<td>Birdsong</td>
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<td>Nov 30</td>
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<td>Student Presentations</td>
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<td><strong>Final (Essay)</strong></td>
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