BIOS 486: ANIMAL BEHAVIOR AND NEUROETHOLOGY
FALL 2016
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 3055 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 23 Overview:
Aug 25 Lab Naked mole rats (sedation)

Wk. 2 Leonard Birds Field Lab
Aug 30 Lab Local field trip UIC to Arrigo Park
Sep 1 Bus field trip to Montrose Point

Wk. 3 Park/Leonard
Sep 6 Bird Migration/ Crickets + Mole Rats
Sep 8 Visit Primate Facility for Lab

Wk. 4 Park
Sep 13 Lab Naked Mole Rats (sedation 2)

Wk. 5 Park
Sep 20 Lab Naked Mole Rats (pain)

Wk. 6 Park
Sep 27 Lab Naked Mole Rats (pain 2)

Wk. 7 Leonard Birds
Oct 4 Long-distance migration
Oct 6 Birdsong learning

Wk. 8 Leonard Birds Field Lab
Oct 11 Local Field Trip UIC to Arrigo Park
Oct 13 Bus Field Trip to Montrose Point

Wk. 9 Chang
Oct 18 Neural circuit mechanism of aggression in Drosophila
Oct 20 Comer Undergraduate Neuroscience Seminar

Wk. 10 Chang
Oct 25, 27 Neural circuit mechanism of aggression in Drosophila
Neural circuit mechanism of aggression in mice

Wk. 11 Chang
Nov 1 Male mating behavior in the nematode worm C. elegans
Nov 3 C. elegans lab

Wk. 12 Chang
Nov 8 Odorant-mediated navigation behavior in C. elegans
Nov 10 C. elegans lab
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<td>Chang</td>
<td>Charlie Rose: The Brain series on Aggression</td>
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