Syllabus
BIO 344 - Neuroethology
Fall 2018

Neuroethology is the evolutionary and comparative approach to the study of animal behavior with emphasis on its underlying mechanistic control by the nervous system.

Lecture times: MWF 11:00 - 11:50 a.m.
Location: C127A Cooke Hall
Instructor: Dr. Todd Hennessey
Office: H610 Hochstetter Hall
Email: thennes@buffalo.edu
Office Hours: Tues. and Wed. 2:00 to 3:00
Phone: 645 4973
Prerequisites: BIO201 and BIO203.


Required readings: Posted on UBlearns

Grading: Two in class exams and a Final exam as well as an optional graded presentation

Possible topics to be covered:
1. Organisation of animal behaviour and of brains – feeding in star-nose moles and courtship in fruit flies
2. Signals in nerve cells – reflexes in mammals and insects
3. Neuronal mechanisms for releasing behaviour – predator and prey: toad and cockroach
4. Neuronal pathways for behaviour – startle behaviours and giant neurons in crayfish and fish
5. Eyes and vision – sensory filtering and course control in insects
6. Sensory maps – hunting by owls and bats
7. Programmes for movement – how nervous systems generate and control rhythmic movements
8. Changes in nerve cells and behaviour – learning in bees and rats

Additional Information:

University Grading policies (including policy on incompletes):
http://undergrad-catalog.buffalo.edu/policies/grading/explanation.shtml

University Policy on Academic Integrity:
http://undergrad-catalog.buffalo.edu/policies/course/integrity.shtml

Accessibility Resources Office (formerly Office of Disability Services):
http://www.student-affairs.buffalo.edu/ods/
Grading

There will be three sections of information. Two exams will happen during the class time (on Section 1 and Section 2) and a final (Section 3) will be scheduled later. Each of these three exams would be 1/3 of the final total.

<table>
<thead>
<tr>
<th>Section 1</th>
<th>Exam 1. Sept. 28</th>
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<tbody>
<tr>
<td>Section 2</td>
<td>Exam 2. Nov. 2</td>
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<tr>
<td>Section 3</td>
<td>Exam 3. To be announced</td>
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</tbody>
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90%  A  
80%  B  
70%  C  
60%  D  
Below 60%  F

Each student must choose one of the following:

1. Your total points would come only from the three exams.

2. Your total points would come from the three exams plus up to 20 points for a presentation. This option can only be done if the student got a B or higher on Exam 1 and it is approved by Dr Hennessey. Examples can be found in UBlearns under Course Documents.

Computer and Webpage Help:

We are not computer experts. We cannot help you with computer or webpage problems. For help with computer issues, see:  http://helpdesk.buffalo.edu/

You can also visit the help desk. The hours and location are at:  
http://cit-helpdesk.buffalo.edu/services/hours.shtml

E-mails:

1. Your e-mails must have the words "BI0334" in the subject line. We may not respond to e-mails that have "hello" or nothing in the subject line because we may think that they are unwanted e-mails (junk)

2. Write your e-mails with complete sentences and captializations. This is not text messaging. Avoid things like, “how R U?” and “hi prof!”.

3. Always put your name on your e-mails so I know who you are.
The course learning objectives will be met when 70% of the enrolled students achieve a final course grade of C or higher. This represents a point score that is 70% of the total possible points.