

LECTURE GOALS:

- Make explicit the implicit regarding course organization and expectations.
- Convey the importance of an “integrative approach” to animal behavior.
- Review just a few basics from Intro Bio section on Animal Behavior.

ASSIGNMENTS AND IMPENDING DUE DATES:

Read Darwin’s “Origin of Species” chapter on Instinct (available on the Courses Website) and be prepared for discussion questions (available on Courses Website) for Thursday 20170831.

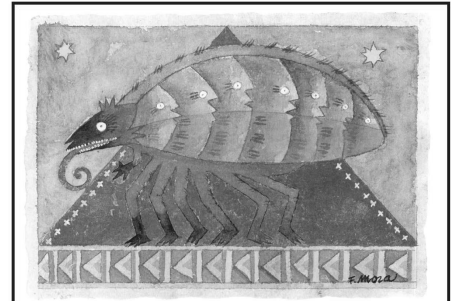
LECTURE OUTLINE:

1. Welcome to Bio342.
2. There are multiple text books available for this course.
 - a. Ryan & Wilczynski “An Introduction to Animal Behavior”
 - b. Byers “Beginner’s Guide to animal Behavior”
 - c. Martin & Bateson “Measuring Behavior”
 - d. Encyclopedia of Animal Behavior (linked from Syllabus website)
 - e. Optional Alcock Edition 10 (available in library)
3. Readings will be posted and updated on the Website.
4. Read the indicated texts and readings BEFORE lecture.
5. Additional readings used for lecture will be available but will be more than you can read.
6. See the course website for additional details regarding course policies.
7. Lab will be highly collaborative.
8. **Lab notebooks are required.**
9. One definition of Animal Behavior is “Behaviour is the internally coordinated responses (actions or inactions) of whole living organisms (individuals or groups) to internal and/or external stimuli, excluding responses more easily understood as developmental changes.”
10. Another definition of the field of Animal Behavior is “How or Why an organism gathers, responds to, or transmits information about its internal or external environment.”
11. We will take an integrative approach to Animal Behavior combining
 - a. Ethology
 - i. each species has a unique set of behavioral solutions based upon the evolutionary challenges faced by its ancestors. (i.e. behaviors evolve)
 - ii. in order to fully understand behavior it is necessary to study it in nature.
 - b. Neuroscience
 - c. Behavioral Ecology
12. It is time to move beyond the “Phenotypic Gambit”.
13. This class requires participation.
14. This class requires conference style comfort with each other.

HELPFUL FIGURES & NOTES:

(All PowerPoint files will be available on the courses server after lecture. The subset of figures and notes here are meant to assist your note taking or studying.)

none today



VOCABULARY:

(Practice writing interesting, informative sentences that include, and capture the meaning of, 4-5 words from this list. To simply memorize a definition, is not sufficient.)

Animal Behavior
Integrative Animal Behavior
Phenotypic Gambit
Ethology

PRACTICE EXAM QUESTIONS:

1. Describe different ways one can be “integrative” in Animal Behavior.
2. What is lost when a researcher adopts the “phenotypic gambit”?
3. What are Suzy’s office hours and how do you get help in this class if you cannot attend posted office hours?
4. Write your own definition of animal behavior. Give two examples to help explain your definition, one that is a behavior and one that is not.

READING FOR TODAY:

Readings will include information that goes beyond, but supports, the lecture material. (Additional suggestions (gray) are provided for students wishing to pursue the topic farther.)

For fun: Look up some of the historic figures from Animal Behavior.

READING FOR NEXT LECTURE:

Read Darwin’s “**Origin of Species**” chapter on Instinct (available on website) and be prepared for discussion questions (available on website) for Thursday.