

Comparative Animal Physiology (Biol 612) for Fall 2009
Thursdays 6:00-9:05 Tier 321B

Prof. Andrew Hill

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Office hours: Thursday 8:00-12:00 am in Boyden Hall Room 314 (note that to gain access to the 3rd floor you need a swipe card; please call me at the number above so I can let you in; use a cell phone or alternatively there is a phone in the north stairwell on the 3rd floor)

Prereq: No prerequisites for a graduate student who has done a Bachelor's degree in the life sciences. A student with another academic background should have had at least a single graduate or undergraduate course in one of the following areas: anatomy, physiology, cell or molecular biology, biochemistry, or cellular signaling. Otherwise students may take the class with the permission of the instructor.

Textbook: Principles of Animal Physiology (2nd Edition) by Moyes and Schulte
ISBN-13: 978-0321501554

Recommended grammar book: The Elements of Style, 4th ed by Strunk and White

Tentative Lecture Schedule (Topics subject to change)

Date	Chapter	Lecture topic
Sept 3	1	Introduction, The study of animal physiology
Sept 10	2	Chemistry, biochemistry, and cell physiology
Sept 17	3	Cell signaling and endocrine regulation
Sept 24	3	Cell signaling and endocrine regulation continued
Oct 1	4	Neural structure and function
Oct 8	4	Neural structure and function continued
Oct 15	5	Exam & Cellular movement and muscles
Oct 22	5	Cellular movement and muscles
Oct 29	8	Circulatory systems
Nov 5	8	Circulatory systems
Nov 12	9	Respiratory systems
Nov 19	9	Respiratory systems
Nov 24	10	Ion and water balance (note Tuesday class due to Thanksgiving)
Dec 3	10	Ion and water balance
To be announced		Final exam (the final exam period is from Dec. 11-17)

COURSE DESCRIPTION:

In this course we will study the physiology of various animals. This class is writing intensive.

GRADING: Your final letter grade is based on one lecture exam (25%) a final (25%), and a number of papers and presentations (50%).

The exams will in essay format and will be open book.

Work to do well on the exams and papers, because **extra credit is not an option**. Scale: $\geq 90\%$ is an A; $\geq 85\%$ to <90 is a B+; $\geq 80\%$ to $<85\%$ is a B; $\geq 75\%$ to $<80\%$ is a C+; $\geq 70\%$ to $<75\%$ is a C; $\geq 60\%$ to $<70\%$ is a D, $<60\%$ is an F.

EXAMS: All lecture exams begin promptly at the start of class. Anyone arriving more than 20 minutes late will not be allowed to take the exam. Should you have a conflict with the exam date, you need to contact me by email prior to or *immediately* after the exam. Should you miss an exam due to medical reasons, you must provide *written documentation* before I will consider giving you a make up exam. All make-ups are essay-style exams and are given near the end of the semester.

ACADEMIC INTEGRITY: Students caught cheating, assisting in cheating, or plagiarizing will be subject to a failing grade for the course and suspension from the university for one or more terms. Theft of examinations is punishable by, among other things, expulsion from the university. See <http://academicintegrity.rutgers.edu/integrity.shtml> for a full description of the policy.

Withdrawal from class:

The last day to withdraw from course: November 2 (note that this is the NJIT date; the Rutgers date may be different).