Welcome to
Animal Physiology – Biol 310
Course Information and Syllabus
UAF Fall 2004
4 CREDITS

Professor: Diane O’Brien
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Office: Arctic Health 228
Email: ffd0@uaf.edu

Office hours: Tuesday/Thursday
11:30-12:30
or by appointment!

Class meetings:
Lecture: Tuesday, Thursday 9:45-11:15 am (Irving 1 room 201)
Laboratory:
Section 2 (72763) Wednesday 2:15-5:15 (Bunnell 402)
Section 1 (72762) Wednesday 6:30-9:30 (Bunnell 402)

Prerequisite courses:
Biol 105X & 106X (Fundamentals of Biology), Chem 105X & 106X (General Chem.)

Text:

AND


OR


Course Description
This course addresses how animals function in different environments, using examples from vertebrates (including humans!) and some invertebrates. Topics will include respiration, digestion, circulation, thermoregulation and metabolism, nerve, muscle and endocrine function,

Course Goals and Methods
This course uses both lecture and hands-on laboratory exercises to teach physiological principles and their application. Some in-class group exercises will encourage problem solving and independent thinking. Students should expect to complete this class with a working grasp of animal physiology and some of the methods used to study it. It is intended to complement Biol 317 (Comparative Anatomy of the Vertebrates), and serves as a prerequisite for Neurobiology, Developmental Biology, Physical Ecology of
Overwintering, Animal Behavior, Vertebrate Endocrinology, and Reproductive Biology. It will serve as good preparation both for students interested in medical careers as well as students interested in graduate work in biology or wildlife related fields.

**Course Policies**
Attendance at laboratories is mandatory! One missed lab will result in -10 points (2% of grade), and two missed labs will result in failure of the course. Late lab assignments will be penalized 5% per day late, and your TA has the right to refuse late work beyond 4 days.

The dates of all exams are shown on the syllabus. If you anticipate a legitimate conflict, notify the instructor as soon as possible. Notification does not automatically entitle a student to a rescheduled assessment, but allows the instructor to consider the request for alternative arrangements. Requests made within the week of the exam will not be considered. Missed exams will be evaluated as 0 points, and make-up exams will only be granted in the case of serious illness or injury, or death in the family. Back up documentation is required to prevent the wanton and needless death of grandmothers.

**Disabilities Services**
The instructors are concerned that all students have equal access to this course. We welcome students with disabilities and will work with the Office of Disabilities Services (203 WHIT 474-7043) to provide reasonable accommodations.

**Assessments and Grades**

<table>
<thead>
<tr>
<th>Assessment</th>
<th>Points</th>
<th>% of Grade</th>
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</thead>
<tbody>
<tr>
<td>Exam 1</td>
<td>100</td>
<td>20%</td>
</tr>
<tr>
<td>Exam 2</td>
<td>100</td>
<td>20%</td>
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<tr>
<td>Quizzes</td>
<td>25</td>
<td>5%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>200</td>
<td>35%</td>
</tr>
<tr>
<td>Lab Work</td>
<td>100</td>
<td>20%</td>
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**Final Grade**
A Work of Consistently Excellent Quality (typically more than 1 SD above mean)
B Work of Above Average Quality (mean to 1 SD above)
C Work of Below Average Quality (mean to 1 SD below)
D Work of Below Average Quality (lower than 1 SD below average)
F Lower than 2 SD below average