BZ 110 PRINCIPLES OF ANIMAL BIOLOGY

Fall 2019
SECTION 001
Clark A101
TR 2-3:15 pm

INSTRUCTOR
Dr. Karen Raines
OFFICE: Biology 208
EMAIL: Karen.raines@colostate.edu
PHONE: 491-3093
OFFICE HOURS: T 1-1:30 pm; W 1-2 pm; R 12-12:30 pm; or by appointment.

ACADEMIC INTEGRITY AND CLASSROOM BEHAVIOR

Academic integrity lies at the core of our common goal: to create an intellectually honest and rigorous community. Because academic integrity, and the personal and social integrity of which academic integrity is an integral part, is so central to our mission as students, teachers, scholars, and citizens, you will be asked to sign the following statement on your exams:

"I have not given, received, or used any unauthorized assistance."

Because the human brain, specifically working memory, can hold only 5-7 pieces of information at any given time, and I want you and everyone around you to be successful, I request that all distractions (excessive talking, disruptive behavior, cell phone use including text messaging) be eliminated.

CSU policies on academic integrity and classroom behavior can be found in the CSU General Catalog http://catalog.colostate.edu/general-catalog/policies/students-responsibilities/#academic-integrity

COURSE DESCRIPTION

Principles of Animal Biology is organized into 3 parts: common life processes, survey of protists and animals, and animal form and function. Part 1, common life processes, will introduce cell and tissue structure and function, cell division, Mendelian genetics, the genetic basis of evolution and the evolutionary and ecological principles that unify all life. Part 2, survey of animals, will emphasize evolutionary and ecological relationships, aspects of animal organization that unite major animal phyla, and animal adaptations. Part 3, animal form and function, will detail select organ systems in invertebrates and vertebrates.
COURSE OBJECTIVES

Upon successful completion of this course, students will be able distinguish basic biological concepts and characteristics that are fundamental to all living organisms. They will have the skills to compare and contrast characteristics of major animal phyla and recognize evolutionary processes that lead to speciation.

TEXTBOOK AND McGRAW-HILL CONNECT

The textbook for the course is Zoology, 11th ed, by Miller and Tupper. To reduce your course material cost, the CSU Bookstore participates in the Inclusive Access Program using Connect for Zoology which will include online homework and access to the full text. Note: All enrolled students are automatically included in this program, the cost is $66.

Connect for Zoology Access Instructions:

- You will use McGraw’s courtesy access until the Add/Drop date.
- Use the following URL to obtain your free trial access:
  - https://connect.mheducation.com/class/k-raines-bz-110-section-001
- If you (the student) choose to opt out of the program provided by the CSU Bookstore, you must purchase the access code on your own.
- If you choose not to opt out a code will be emailed to you which will provide you access to the class materials for the remainder of the semester after Add/Drop date.
- PLEASE check your email (colostate.edu address) after Add/Drop date to receive the full code.

Opting Out of Inclusive Access

- If you choose an alternate method of access to the online content and homework platform, you must opt out of the Inclusive Access program prior to the Add/Drop date to avoid billing. To opt out, you will need to follow a link provided, in an email, from the bookstore.

Important Dates:
- * September 11, 2019 – Opt Out Date
- * September 16, 2019 – Charges will show on your student account

SmartBook ASSIGNMENTS IN McGRAW-HILL CONNECT

There are a total of 24 SmartBook assignments (one for each assigned chapter) in McGraw-Hill Connect. Each SmartBook assignment is worth 3 points. The SmartBook assignment due dates can be found in the course schedule at the end of the syllabus, in canvas and on the McGraw-Hill site.

  - https://connect.mheducation.com/class/k-raines-bz-110-section-001
COLORADO STATE UNIVERSITY CANVAS

Power point slides, study guides, reference materials and grades will be posted in Canvas (http://info.canvas.colostate.edu/login.aspx). A Canvas app is also available for smart phones and available free of charge to Canvas users.

SMALL GROUPS

On numerous occasions throughout the semester, there will be opportunities for small group discussions and in-class group assignments. All students will be expected to participate in small group discussions and in-class group assignments.

iClicker

Each student will need an iClicker for the course. To register your iClicker remote go into canvas and select “iClicker” on the left side. Your iClicker should be registered by class time on Tues, Sept 3. Students will be tested on current and previous course content using iClickers beginning the second week of class. Each student will be graded on participation with a possible of 20 total points for the semester. To receive all 20 participation points a student must answer 70% or more of the questions. Participation points will not be awarded in the case of absences related to health issues, travel, family emergencies or forgotten or inoperable iClickers. Below 30% participation results in 0/20 points assigned for the semester.

TESTS

There will be 3 hourly exams (120 pts/exam) and a final exam (240 pts). The lowest hourly exam grade will be dropped. The final exam is a cumulative exam and is mandatory. If a student has a conflict with a test date, the student may meet with the instructor and request to take the test at an earlier time. There are no makeup exams and no extra credit!! Please keep in mind that illnesses, accidents, family emergencies, etc. do happen, so don’t assume the drop policy allows you to “blow off” a test.
GRADES

Exam grades and exam keys will be posted in canvas within 1-3 days after an exam date. To calculate final course grades the total number of points earned (exam scores – lowest exam + assignments + iClicker points + final exam) will be divided by total points possible (572). The average will be multiplied by 100 and the grades will be assigned using the scale shown below.

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Numerical Equivalent</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>98-100</td>
</tr>
<tr>
<td>A</td>
<td>93-97</td>
</tr>
<tr>
<td>A-</td>
<td>90-92</td>
</tr>
<tr>
<td>B+</td>
<td>87-89</td>
</tr>
<tr>
<td>B</td>
<td>83-86</td>
</tr>
<tr>
<td>B-</td>
<td>80-82</td>
</tr>
<tr>
<td>C+</td>
<td>77-79</td>
</tr>
<tr>
<td>C</td>
<td>70-76</td>
</tr>
<tr>
<td>D</td>
<td>60-69</td>
</tr>
<tr>
<td>F</td>
<td>0-59</td>
</tr>
<tr>
<td>WEEK</td>
<td>TOPIC</td>
</tr>
<tr>
<td>--------------</td>
<td>----------------------------------------------</td>
</tr>
<tr>
<td>Aug 26-30</td>
<td>Intro to Zoology (on your own) Cells/Tissues/Organs</td>
</tr>
<tr>
<td>Sept 2-6</td>
<td>Cells/Tissues/Organs Cell Division &amp; Inheritance <strong>SmartBook (chap 2) due Wed</strong></td>
</tr>
<tr>
<td>Sept 9-13</td>
<td>Cell Division &amp; Inheritance <strong>SmartBook (chap 3) due Mon</strong></td>
</tr>
<tr>
<td>Sept 16-20</td>
<td>Evolution <strong>SmartBook (chap 4) due Mon SmartBook (chap 1) due Wed</strong></td>
</tr>
<tr>
<td>Sept 23-27</td>
<td>EXAM 1 (TUES, SEPT 24) Population Genetics <strong>SmartBook (chap 5) due Wed</strong></td>
</tr>
<tr>
<td>Sept 30-Oct 4</td>
<td>Ecology Animal Taxonomy (on your own) <strong>SmartBook (chap 6) due Mon SmartBook (chap 7) due Wed</strong></td>
</tr>
<tr>
<td>Oct 7-11</td>
<td>Phylum Porifera Phylum Cnidaria Phylum Platyhelminthes <strong>SmartBook (chap 9) due Mon SmartBook (chap 10) due Wed</strong></td>
</tr>
<tr>
<td>Oct 14-18</td>
<td>Phylum Annelida <strong>SmartBook (chap 12) due Mon EXAM 2 (THURS, OCT 17)</strong></td>
</tr>
<tr>
<td>Oct 21-25</td>
<td>Phylum Nematoda Phylum Mollusca <strong>SmartBook (chap 13) due Wed SmartBook (chap 11) due Wed</strong></td>
</tr>
<tr>
<td>WEEK</td>
<td>TOPIC</td>
</tr>
<tr>
<td>------------</td>
<td>--------------------------------------------------</td>
</tr>
</tbody>
</table>
| Oct 28-Nov 1 | Phylum Arthropoda  
SmartBook (chap 14) due Mon  
SmartBook (chap 15) due Wed | 14 & 15 |
| Nov 4-8    | Phylum Echinodermata  
Phylum Chordata  
SmartBook (chap 16) due Mon  
SmartBook (chap 17) due Wed | 16      
17      |
| Nov 11-15  | Survey of the vertebrates  
SmartBook (chap 18) due Mon  
SmartBook (chap 19) due Wed  
EXAM 3 (THURS, NOV 14) | 18-19   |
| Nov 18-22  | Survey of the vertebrates  
SmartBook (chaps 20-21) due Mon  
SmartBook (chap 22) due Wed | 20-22   |
| Nov 25-29  | Fall Break                                      |         |
| Dec 2-6    | Circulation & Gas Exchange  
Nutrition & Digestion  
SmartBook (chap 26) due Mon  
SmartBook (chap 27) due Wed | 26      
27      |
| Dec 9-13   | Reproduction & Development  
SmartBook (chap 27) due Mon | 29      |
| Dec 17     | FINAL EXAM  
TUES, DEC 17 @ 6:20 pm  
Clark A101 |         |