BZ 110 PRINCIPLES OF ANIMAL BIOLOGY

SPRING 2017
SECTION 001
Yates 104
TR 3:30-4:45

INSTRUCTOR
Dr. Karen Raines
OFFICE: Anatomy/Zoology E 302
EMAIL: Karen.raines@colostate.edu
PHONE: 491-3093
OFFICE HOURS: T 11:15-11:45; W 1-2 pm; R 2-2:30 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 write and sign the following statement on your exams:

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

Disruptive behavior, including excessive talking and cell phone use (including text messaging), will not be tolerated. 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 protists and 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 completion of this course, students will have knowledge of basic biological concepts and characteristics fundamental to all living organisms. They will know characteristics of major animal phyla and detailed features of multiple organ systems in invertebrates and vertebrates.
TEXTBOOK AND McGRAW-HILL CONNECT
To reduce your course material cost, I am participating 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.

Access Instructions:
- You will use McGraw’s courtesy access until the Add/Drop date.
- Use the following URL to obtain your free trial access: http://connect.mheducation.com/class/raines-bz110section001spring2017
- 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.
- Once opted out, you must purchase the access code on your own to the homework platform and e-text.
- If you opt out by accident, you can email kurt.kaiser@colostate.edu to have access re-instated and billed. Include your name, department, course, section and student number in your request.
- If you would like to opt out click here. bookstore_optout@mail.colostate.edu.
  - Reference “Class opt out” in the subject line
  - Include your name, department, course, section, and student number in the body of the email.

LearnSmart ASSIGNMENTS IN McGRAW-HILL CONNECT
There are a total of 25 LearnSmart assignments (one for each assigned chapter) in McGraw-Hill Connect. Each LearnSmart assignment is worth 1 point. One point may sound insignificant, but if all 25 assignments are completed that is 25 total points. The LearnSmart assignment due dates can be found in the course schedule at the end of the syllabus and on the McGraw-Hill site. http://connect.mheducation.com/class/raines-bz110section001spring2017

COLORADO STATE UNIVERSITY CANVAS
Power point slides, study guides, reference materials, quizzes 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. Quiz due dates are “bold-faced” on the course schedule. Each student will be
responsible for submitting his or her quiz by the due date. Quizzes can be found by clicking on “quizzes” in canvas. Once you begin a quiz, you will have 1 hour to submit your answers. Quizzes are open book/open note tests.

**iCLICKER**
Each student will need an iClicker for the course. To register your iClicker remote go to [https://wsnet.colostate.edu/cwis262/clicker/](https://wsnet.colostate.edu/cwis262/clicker/) select “students,” then “Canvas iClicker Registration.” Your iClicker should be registered by Jan 24, 2017. You can also register your iClicker by logging into Canvas and selecting “iClicker” on the left side.

Questions regarding current and previous course content will be assessed using iClickers each class period (exam dates excluded) 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), 5 quizzes (10 pts/quiz) 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**
Quiz grades will be available upon submission of a quiz. 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 + quiz scores + assignments + iClicker points + final exam) will be divided by total points possible (575). The average will be multiplied by 100 and the grades will be assigned using the scale shown below.

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<thead>
<tr>
<th>Letter Grade</th>
<th>Numerical Equivalent</th>
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<tbody>
<tr>
<td>A+</td>
<td>98-100</td>
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<td>A</td>
<td>93-97</td>
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<td>A-</td>
<td>90-92</td>
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<td>B+</td>
<td>87-89</td>
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<td>B</td>
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<td>B-</td>
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<td>C</td>
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<td>D</td>
<td>60-69</td>
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<td>F</td>
<td>0-59</td>
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# COURSE SCHEDULE

<table>
<thead>
<tr>
<th>WEEK</th>
<th>TOPIC</th>
<th>CHAPTER ASSIGNMENT</th>
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## PART 1: COMMON LIFE PROCESSES

1: Jan 16-20  
- Intro to Zoology  
- Cells/Tissues/Organs  
  - 1 (on your own)

2: Jan 23-27  
- Cells/Tissues/Organs  
  - 2
- LearnSmart (chap 2) due Wed, Jan 25  
- Cell Division & Inheritance  
  - 3

3: Jan 30-Feb 3  
- Cell Division & Inheritance  
  - 3
- LearnSmart (chap 3) due Wed, Feb 1  
- Quiz 1 due Fri, Feb 3

4: Feb 6-10  
- Evolution  
  - 4
- LearnSmart (chaps 1 & 4) due Wed, Feb 8  
- Exam 1 - Thur, Feb 9

5: Feb 13-17  
- Population Genetics  
  - 5
- Ecology  
  - 6
- LearnSmart (chaps 5 & 6) due Wed, Feb 15

## PART 2: SURVEY OF PROTISTS AND ANIMALS

6. Feb 20-24  
- Animal Classification  
  - 7 (on your own)
- Protists  
  - 8
- LearnSmart (chap 8) due Wed, Feb 22

7: Feb 27-Mar 3  
- Phylum Porifera  
  - 9
- Phylum Cnidaria  
  - 9
- Phylum Platyhelminthes  
  - 10
- LearnSmart (chaps 9 & 10) due Wed, Mar 1  
- Quiz 2 due Fri, Mar 3

8: Mar 6-10  
- Phylum Annelida  
  - 12
- LearnSmart (chaps 7 & 12) due Wed, Mar 8  
- Exam 2 – Thurs, Mar 9

Mar 13-17  
- SPRING BREAK 🎉
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<tr>
<th>WEEK</th>
<th>TOPIC</th>
<th>CHAPTER ASSIGNMENT</th>
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<tr>
<td>9: Mar 20-24</td>
<td>Phylum Nematoda</td>
<td>13</td>
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<td>Phylum Mollusca</td>
<td>11</td>
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<td>LearnSmart (chaps 13 &amp; 11) due Wed, Mar 22</td>
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<td>10: Mar 27-31</td>
<td>Phylum Arthropoda</td>
<td>14 &amp; 15</td>
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<td>LearnSmart (chaps 14 &amp; 15) due Wed, Mar 29</td>
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<td>Quiz 3 due Fri, Mar 31</td>
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<td>11: Apr 3-7</td>
<td>Phylum Echinodermata</td>
<td>16</td>
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<td>Phylum Chordata</td>
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<td>LearnSmart (chaps 16 &amp; 17) due Wed, Apr 5</td>
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<td>Quiz 4 due Fri, Apr 7</td>
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<td>12: Apr 10-14</td>
<td>Exam 3 – Tues, Apr 11</td>
<td>18</td>
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<td>Survey of the vertebrates</td>
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<td>LearnSmart (chaps 18 &amp; 19) due Wed, Apr 12</td>
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<td>13: Apr 17-21</td>
<td>Survey of the vertebrates</td>
<td>19-22</td>
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<td>LearnSmart (chaps 20-22) due Wed, Apr 19</td>
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**PART 3: ANIMAL FORM AND FUNCTION**

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<tr>
<th>WEEK</th>
<th>TOPIC</th>
<th>CHAPTER ASSIGNMENT</th>
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<tr>
<td>14: Apr 24-28</td>
<td>Circulation &amp; Gas Exchange</td>
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<td>Nutrition &amp; Digestion</td>
<td>27</td>
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<td>LearnSmart (chaps 26 &amp; 27) due Wed, Apr 26</td>
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<td>Quiz 5 due Fri, Apr 28</td>
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<td>15: May 1-5</td>
<td>Reproduction &amp; Development</td>
<td>29</td>
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<td>LearnSmart (chap 29) due Wed, May 3</td>
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<td>16: May 8-12</td>
<td>FINALS WEEK</td>
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<td>FINAL EXAM</td>
<td>Monday, May 8- 9:40-11:40 am</td>
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