BZ310: CELL BIOLOGY – SYLLABUS FALL 2015

INSTRUCTOR INFORMATION

INSTRUCTOR: Dr. Mark A. Brown, Department of Clinical Sciences
OFFICE: VTH (South Campus)/Johnson Hall 223G (Main Campus)
EMAIL: M.Brown@ColoState.edu
OFFICE HOURS: Regularly available in 223G Johnson Hall by Appointment

ASST INSTRUCTOR: Melissa A. Edwards
OFFICE: 223A Johnson Hall
EMAIL: Melissa.Edwards@ColoState.edu
OFFICE HOURS: Mondays 11:00am-12:00pm & Thursdays 1:00pm-2:00pm and by Appointment

REQUIRED TEXTS & MATERIALS

Cell and Molecular Biology: Concepts and Experiments, 7th edition by Gerald Karp
ISBN 978-1-118-20673-7

An iClicker for in class quizzes (code DA) BRING TO EVERY CLASS

Lab Materials
- Lab manual
- Lab notebook (tape bound/non-spiral)
- Lab coat

All lectures will be held in Yates 104 on Mondays, Wednesdays, and Fridays from 10:00am-10:50am.

COURSE DESCRIPTION

Beginning by recognizing the cell as the basic unit of life, we will explore the discovery, importance and specialized functions of the cell. Further we will dive into the molecular mechanisms by which cells operate, move, proliferate, communicate, and die. We will examine the distinguishing features of cells in different organisms and within different systems of a single organism. Lastly we will explore gene expression and how DNA is preserved, repaired, and passed on.

LEARNING OUTCOMES

Upon the completion of this course, you should be able to:
- Recognize how cells work as individual units and in tandem to sustain life
  - Identify cellular structures and recall their functions
  - Interpret the basic mechanisms of cellular communication and signal transduction
• Summarize procedures of gene expression control as well as the central dogma of molecular biology
  — Explain mechanisms of DNA replication all the way through protein production and function

COURSE STRUCTURE & EXPECTATIONS

DAILY QUIZZES

You will be expected to take up to two (2) quizzes during each lecture period. Quizzes are designed to evaluate your understanding of the assigned readings and of the lecture/discussion content of the course. One quiz will generally be administered at the beginning of each period. A quiz may also be administered toward the end of a period. Although make-up quizzes will not be offered for students who are late/leave early or absent from class, we will drop your two lowest quiz dates.

Quizzes will be administered using iClicker technology. Each student is required to bring their own, registered iClicker device to each lecture period beginning Friday, August 26. If you are not familiar with iClicker technology, please visit the following URL for more information and to register your device: http://clicker.colostate.edu/

Quiz questions will be multiple choice and worth one point each. Unless otherwise instructed, there should be silence during all quizzes. Texts, notes, computers, etc. may not be used during quizzes.

EXAMS

Exam dates are provided in the COURSE SCHEDULE. Exams 1 and 2 will be administered during the regular lecture time. Exam questions will typically (but not exclusively) be short answer, process diagrams, and fill-in-the-blank. Multiple choice questions will not be used for exams. EXAMS 1 and 2 are not cumulative. They will cover only the material comprising that section of the course. The FINAL EXAM is cumulative and covers all material for the semester. The FINAL EXAM will be administered during FINAL EXAMS WEEK according to the University Finals Schedule.

READINGS

Reading the course text is essential for this course. If you fall behind on the readings, you will fail the quizzes and likely fail the course. Assigned readings are provided in the COURSE SCHEDULE. Please read the assigned readings before you arrive for lecture. Plan on taking notes on the readings and remember - don’t try to cover all the readings for a given week at once. Break it up into small sections and do a little reading every day. Schedule at least one hour per day to read, re-read, and take notes. Doing the reading in small, approximately 10 page increments will help you to better understand and retain the information.
**Grading**

It is our goal to return your grades and feedback in a timely manner. You will have 1 week after receiving a graded exam to ask questions or comments regarding scores. After 1 week, while you are still encouraged to ask questions, we will be unable to modify your score.

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<th>COMPONENT</th>
<th>GRADE %</th>
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<tr>
<td>Exams (3, including the final)</td>
<td>49.5%</td>
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<tr>
<td>Combined Daily Quiz Scores</td>
<td>16.5%</td>
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<tr>
<td>Project/Presentation/Assignment (1 total)</td>
<td>9%</td>
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<tr>
<td><strong>Lecture SubTotal:</strong></td>
<td>75%</td>
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<tr>
<td>Lab**</td>
<td>25%</td>
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<tr>
<td><strong>Course Total</strong></td>
<td>100%</td>
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** The laboratory component accounts for 25% of your final grade for this course. The laboratory grade is determined independently of your lecture grade and is factored into the final grade at the conclusion of the semester. See laboratory syllabus for details.

**Grade Description**

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<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>F</th>
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<tbody>
<tr>
<td>Grade%</td>
<td>90-100</td>
<td>80-89</td>
<td>70-79</td>
<td>60-69</td>
<td>0-59</td>
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**Universal Design for Learning**

We are committed to the principle of universal learning. Our classroom and interactions are welcoming, positive and inclusive. Our goal is to enhance the knowledge of every student in the class. Please address the class, fellow students and all instructors in a respectful and civil manner. If you require specific accommodations for this course, please contact us in advance for arrangements. A verifying memo from Resources for Disabled Students may be required before any accommodation is provided.

**Technical Support**

If you require Technical Support, try the following resources:

- Visit the [Canvas Student Resources](#) for guides and videos
- Visit [Central I.T. Technical Support Helpdesk](#) for technical support
- Call 970-491-7276
- Email [Help Desk Support](#)

**Academic Integrity Policy**

This course will adhere to the CSU Academic Integrity [Policies and Guiding Principles](#) as found in the General Catalog and the [Student Conduct Code](#). You are responsible for completing your own work and not taking credit for another’s work be it a student directly or materials and resources from text or the internet. Violations of the university’s academic integrity standards include, but are not limited to:
• Cheating—includes using unauthorized sources of information and providing or receiving unauthorized assistance on any form of academic work or engaging in any behavior specifically prohibited by the faculty member.
• Plagiarism—including the copying of language, structure, ideas, or thoughts of another, and representing them as one’s own without proper acknowledgment.
• Unauthorized Possession or Disposition of Academic Materials—includes the unauthorized selling or purchasing of examinations or other academic work; stealing another student’s work; unauthorized entry to or use of material in a computer file; and using information from or possessing exams that an instructor did not authorize for release to students.
• Falsification—including any untruth, either verbal or written, in one’s academic work.
• Facilitation—including knowingly assisting another to commit an act of academic misconduct.

At a minimum, violations will result in a grading penalty in this course and a report to the Office of Conflict Resolution and Student Conduct Services. For more information about academic integrity, please visit: Practicing Academic Integrity.

Suggested Study Methods
All education requires time and effort and it is important to establish new habits and hone the following skills for successful completion of this course:
• The proper set up — Designate a “classroom” area where you feel comfortable, has minimal distractions, and where you can organize your work.
• Allot time — Give yourself ample time to complete the readings and assignments.
• Organize your work — Print out all class material and be sure to maintain electronic backups of all materials and assignments.
• Communicate with the class and the instructor — Demonstrate a willingness to interact with your instructor and classmates through email, phone calls, discussion boards, and active participation in all class activities.
• Discipline — Pace yourself, complete all activities and assignments before the due date, follow through on all class requirements to completion.