Principles of Biology I (Biology 1107K), Spring 2017

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Office Hours: Mondays and Wednesdays 3:00-4:00, Tuesdays 12:30-4:30, and Thursdays 2:30-4:30
Or email for appointment

Textbook: Biology (OpenStax) https://openstaxcollege.org/textbooks/biology
http://libguides.daltonstate.edu/PrinciplesofBiology/labmanual
iClicker: Either iClicker or iClicker 2. You must register your iClicker either in class or online.

Course Prerequisite: READ 0098 unless exempt

Course Description: This course is designed to provide an introduction to the fundamentals of biological science. The focus is on the organization of life, the scientific method, the energy of life, genetics, and evolution.

Course Objectives: At the end of this course you should be able to:
1. Demonstrate an understanding of the scientific method and apply it to problem solving
2. Demonstrate an understanding of the basic molecules that are the building blocks of life
3. Identify and understand the functions of cellular structures
4. Demonstrate an understanding of the processes of cell reproduction
5. Summarize the processes of cellular respiration and photosynthesis
6. Solve genetics problems
7. Describe the structure of the DNA molecule and understand how it serves as the carrier of genetic information
8. Demonstrate an understanding of the processes of protein synthesis and gene regulation
9. State several applications of genetic engineering
11. Demonstrate effective use of the microscope

Evaluation:   4 Lecture Exams (100 points each)                             400 (40%)
               Final exam                                                      150 (15%)
               Online Participation                                              100 (10%)
               Class Attendance and Participation                              150 (15%)
               Lab Participation                                                200 (20%)
               TOTAL = 1000

Final Grade Assignment: 90 - 100% A
                        80 - 89% B
                        70 - 79% C
                        60 - 69% D
                        Less than 60% F
• **Lecture Exams**: Exams will be composed of multiple choice, matching, true/false, and short answer questions. They will include questions pertaining to appropriate laboratory material.

• **Final Exam**: The exam will be comprehensive and will include questions about material from the most recent chapters covered in class (i.e. concepts that may not have been on a test before).

• **Online Participation**: Each chapter will be broken down into short modules. Each module will consist of a couple of videos to accompany that portion of the book. An online quiz will assess students’ comprehension of the material.

• **Class Attendance and Participation**: You are expected to be present in class and knowledgeable about the subject matter BEFORE you come, by reading the assigned sections in your textbook. Your participation grade is based on attendance, iClicker quizzes, and, of course, your participation in class.

• **Lab Participation**: You must be present and prepared for each lab meeting. Your grade will be based on active participation, and performance on a weekly lab quiz that tests your understanding of the material covered.

**Attendance Policy:**

**Class**: Attendance is required for quizzes given in class. You are responsible for keeping up with any material you missed. Students with a documented excused absence will not be penalized for quizzes missed.

**Lab**: Attendance in labs is **mandatory**, and there will be no make-ups available. Failure to attend will result in the loss of participatory points: 10 points per lab after the first lab missed; **missing more than 2 labs results in a failing lab grade**. Please notify me prior to class if you will not be able to attend due to any of the reasons for excused absences listed below. Students with a documented excused absence will be allowed to compensate for points lost.

**Exams**: You must be present for exams. Make-ups will be given for excused absences only according to the policy outlined below. If you are absent for one exam, the score you earn on the final exam will be used in place of the missing exam grade. If you do not miss any exams, the percent correct you earn on the final exam will be used to replace your lowest exam score (assuming the final exam score is higher). All exam papers must be returned to the instructor after they are reviewed in class.

**Excused Absences**: Students are granted excused absences from class for the following reasons: an officially approved DSC group activity, documented court activity, documented military activity, or documented illness. When feasible, the student must notify the instructor prior to the occurrence of any excused absences, but in no case shall such notification occur more than one week after the absence. **Appropriate documentation for all excused absences is required.**

**Make-Up Policy for Excused Absences**: Arrangement to make up missed major examinations and course assignments due to properly authorized excused absences must be initiated by the student within 3 days of the students’ return to class.
Academic Honesty:
Cheating and plagiarism are a part of the Dalton State Code of Student Conduct, which can be found in its most updated form at http://daltoncampuslife.com/student-conduct/. ANY assistance provided or given in any way toward work in a class constitutes cheating, unless such behavior is authorized by your instructor. Additionally, any use of the ideas or words of others should be noted, or this will constitute plagiarism. For more details on what Dalton State considers to be Academic Dishonesty, please review the Code of Student Conduct. Instructors will assign grades based on classroom performance. Additional sanctions may be provided as a learning experience from the Student Conduct process.

Classroom Behavior:
Dalton State is committed to respect via the Roadrunner Respect pledge. To learn more, please visit http://daltoncampuslife.com/roadrunner-respect/.

“I pledge to show my fellow Roadrunner students, faculty, staff, and administration respect by treating others the way they want to be treated and by thinking about others first before making decisions that might affect them.”

Emergency Statement:
Inclement Weather/College Closure Emergency Instructional Plan
In the event the college is closed due to inclement weather or another unforeseen event, students will consult the schedule provided at the beginning of the semester to determine which chapters would be covered during the time the college is closed. Students will be responsible for anything in that chapter. Any homework assignments due during the closed interval will be due the first day class meets after the college reopens. Labs that are missed will either be made up at a later date or removed from the class schedule and not counted at the end of the semester in the final grade. Exams will be moved in the class schedule to accommodate the curtailed schedule. I may be available via e-mail on a limited basis when the college is closed.

Drop/Withdrawal Policy: (Revised June 25, 2007)
Students wishing to withdraw from the course may do so without penalty until the mid-point of the semester, and a grade of W will be assigned. After that point, withdrawal without penalty is permitted only in cases of extreme hardship as determined by the Vice President for Academic Affairs; otherwise a grade of WF will be issued. (Please note: At Dalton State College, the Hardship Withdrawal process requires students to withdraw from all classes at the college.) The proper form for dropping a course is the Schedule Adjustment Form, which can be obtained at the Enrollment Services Office in Westcott Hall. The Schedule Adjustment Form must be submitted to the Enrollment Services Office. Students who disappear, completing neither the official withdrawal procedure nor the course work, will receive the grade of F. This instructor will not withdraw students from the class. Withdrawal from any Dalton State College classes is a student responsibility. The last day to drop classes without penalty is March 24.

COMPLETE WITHDRAWAL STATEMENT: (REVISED JULY 17, 2012)
“The proper form for withdrawing from all classes at the college after the official drop/add period but before the published withdrawal date is the Schedule Adjustment Form. All students must meet with a staff member at the Office of Academic Resources in the Pope Student Center to initiate the withdrawal process. After meeting with the staff member, students will then finalize the withdrawal process in the Enrollment Services Office.”
DISABILITY SUPPORT SERVICES: (Revised July 30, 2014)
Students with disabilities or special needs are encouraged to contact Disability Support Services. In order to make an appointment or to obtain information on the process for qualifying for accommodations, the student should visit the Disability Support Services Library Guide at http://libguides.daltonstate.edu/Disability or contact the Coordinator of Disability Support Services. Contact information:
Andrea Roberson, Coordinator
Pope Student Center, lower level
706/272-2524
aroberson@daltonstate.edu

Workforce Innovations Opportunity Act:
Questions regarding students receiving financial assistance through the Workforce Innovations Opportunity Act should be directed to 706-295-6840.

OFFICIALLY APPROVED DSC GROUPS AND ACTIVITIES: (Effective Fall 2013)
When students are engaged in officially approved Dalton State groups or activities that require them to participate in events off campus during school days, they shall be treated similarly to any faculty or staff member acting in that same capacity. Thus, just as faculty and staff have excused absences from their regular work schedules, students shall be excused from class without penalty if they are off campus representing Dalton State College in an approved, official capacity during their regular class time. Examples include presenting a paper or otherwise participating in a conference, attending a University System student affairs event, participating in intercollegiate competition (athletic or academic), participating in an approved field trip, etc. Just as faculty and staff members are required to submit Request to Travel forms for approval, in order to be excused, the student needs to provide the following information to the instructor prior to the date when he/she will be absent from class:

- Notification of the event (in the case of athletics, students should provide each instructor a schedule of away events at the beginning of the semester or as soon as possible after the schedule is available);

- Estimated time of departure from and return to campus (for example, if a student has an away game in the evening and will not be leaving campus until 3:00, he/she will not be excused from classes prior to that time on that day; similarly if the event is in the morning and the student will be returning to campus during the day, he/she is expected to attend any class scheduled after the return trip); and

- Contact information for the person or organization sponsoring/authorizing the student’s participation in the event.

The student shall be allowed to make up any work missed during the time he/she is off campus representing DSC in an official capacity. He/she shall discuss what will be missed with the instructor and make arrangements to make up any assignments, tests, presentations, etc. that were scheduled on that date.
TITLE IX INFORMATION:

Sex Discrimination, Harassment, & Assault
Sexual harassment is unwelcome, gender-based verbal or physical conduct that is sufficiently severe, persistent or pervasive that it has the effect of interfering with, denying or limiting someone’s ability to participate in or benefit from the college’s educational program and/or activities, and is based on power differential (quid pro quo), the creation of a hostile environment, or retaliation. Sexual misconduct is a form of sexual harassment prohibited by Title IX. Sexual misconduct refers to “physical sexual acts perpetrated against a person’s will or where a person is incapable of giving consent due to the victim’s use of drugs or alcohol. An individual also may be unable to give consent due to an intellectual or other disability.” Sexual misconduct includes dating violence, domestic violence, rape, sexual assault, sexual battery, stalking, and sexual coercion.

Reporting Options
*Call 911 if you are in an emergency situation*

**Dalton State Public Safety (this report is not confidential)**
Tech Building- Upper Level - 706-272-4461
Online Sexual Assault Report -
https://dynamicforms.ngwebsolutions.com/ShowForm.aspx?RequestedDynamicFormTemplate=3fe5724c-a8bd-4a31-9c25-1a3d35110a51

**If you would like to report to Dalton State Administration: (this report is not confidential)**
Report Title IX complaint online - http://daltonstate.edu/campus_life/student-conduct-about.cms

Report Student-on-Student Title IX complaint in person:
Brittnie Lee, Office of Student Life
Coordinator for Student Responsibility & Service/ Deputy Title IX Coordinator
Pope 113
balee@daltonstate.edu, 706-272-2999

Report Title IX complaint involving Faculty or Staff in person:
Lori McCarty, Director of Human Resource/ Title IX Coordinator
Memorial 122
lmccarty@daltonstate.edu 706-272-2034

**If you would like to talk with someone confidentially:**
Dalton State Counseling & Career Services, Academic Resources
Lower Pope
706-272-4429
counseling@daltonstate.edu
http://libguides.daltonstate.edu/Counseling
A Few Odds and Ends:

- Please turn off cell phones in lecture and lab. This means NO TEXTING!
- Please don’t leave class or lab early unless you have notified me of your need to do so. Leaving lab early may result in a loss of participatory points.
- Questions and discussion in class and lab are encouraged – this is your class and I want you to participate! On the other hand, private conversations are distracting to others, so please refrain.
- Use of proper grammar and correct spelling is expected for all written assignments.
- Let’s try to be “green” by recycling all paper, plastic, and aluminum – at least while on campus (and hopefully away from campus as well!).

Tips for Succeeding in Biology 1107

1) **Keep up!!** One of the challenging aspects of the course is the sheer volume of material to be covered. If you fall behind, it will be difficult to catch up.

2) **Study Hints**
   a. **Always think big picture.** Don’t sit down to memorize facts as if the material is just a random list of items. Fit each detail into a larger frame work. You will remember things much better if they are placed in a “web” of associations rather than isolated tidbits.
   b. **Before Class:** Read the chapter to be covered! Don’t get bogged down in detail – just get the big picture, cover major points and become familiar with the terminology (the chapter summary at the end of the chapter will be helpful here). Carefully review notes from the previous lecture. What is unclear? What don’t you understand? Ask a classmate for help, check the relevant section in the book, or ask me. Take care of problems as they arise or they may pile up and ambush you the night before an exam.
   c. **In Class:** Be awake and aware! Many students become automatic writing machines during class - “I’ve got to get it down so I can learn it later.” Don’t fall into this trap – let your mind be as active as your pen. If you are falling asleep - get up and do some jumping jacks next to your seat. If you snooze, you lose.
   d. **Exams:** My questions are designed to test three levels of learning. The most elemental kind of learning is **memorization.** In science, memory is important, not as an end in itself, but primarily in the sense that knowing vocabulary is important for learning a foreign language. A second level of learning is **comprehension.** Do you really understand the material and can you take information in one form and restate it in another form. Test your comprehension by trying to explain concepts to another person. A third level of learning is **application.** Can you solve problems using required skills or knowledge? Keep these levels of learning in mind as you study.
   e. **General advice on multiple choice questions:**
      i. Read the problem, read all answers.
      ii. The correct answer is both true and relevant.
      iii. Don’t make mechanical mistakes. Check to see that if you chose answer A, answer A is what you marked.
      iv. Don’t read more into the question than what is there. Some questions are easy, some are harder; you’ll have to decide which is which. Feel free to ask questions about questions.