BIO 101
General Biology
Fall 2015
CRN 23786-BI101:
Lecture: Tuesday, 1:00 – 3:20, WOH-217 & Lab: Thursday, 1:00 – 3:20, WOH-218

Instructor: Greg Coleman
Office: WOH-220
Office hours: Tuesday and Thursday 11:30 – 12:00 or by appointment
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Required Text and Packets (From the Bookstore):
Audesirk, Audesirk and Byers, 2014 Biology: Life on Earth with Physiology Bio 101
BI101 Lab Packet - available in bookstore. Additional handouts provided in class.
Mastering Biology Access Code: Comes with the text or e-book

LBCC prohibits unlawful discrimination based on race, color, religion, ethnicity, use of native language, national origin, sex, sexual orientation, marital status, disability, veteran status, age, or any other status protected under applicable federal, state, or local laws.

Course Overview
Biology 101 is an introduction to ecology, diversity of life, and environmental problems. This course is intended for **NON-Science majors.** If you plan on majoring in a field of science this is probably not the class for you. Check with your intended transfer school and program for their specific degree requirements. Biology 101 is the first course in a three term sequence of general biology (101, 102, and 103). 100 level general biology courses are structured to be taken **in any** order. There are no prerequisites for this class.

Primary Teaching Methods:
The textbook is the primary source of information for this course. Students are responsible for reading the required chapters in preparation for that days lecture. Some questions on quizzes and exams may be formulated using reading assignments rather than lecture notes. However, lecture notes will be a major source for test and quiz questions. Therefore, it is very important that you attend lectures and understand all lecture topics.

Important Dates:

NO CLASS	Thursday Nov. 26th (Thanksgiving)
1st Lecture Exam:	Tuesday, Oct. 20th
2nd Lecture Exam:	Tuesday, Nov. 17th
Final Exam	Tuesday, Dec. 8th, 2:30 – 4:20

Grading:

All grading is based upon mastery of the subject matter of this course. Points towards your final grade will be awarded as follows:

First hour exam		100	Grade cut-offs.	
Second hour exam		100	A	90%
Final exam		200	B	80 - 90%
Pre-lab exercises	10 @ 5	50	C	70 - 80%
Labs	10@ 10	100	D	60 - 70%
Random in-class assignments	5@ 10	50	F	<60%
PEARSON ONLINE HOMEWORK		60		

Total 660 (actual total may be different)

Additional Grading Options:

Two additional grade assignments are possible; incomplete and Y. An incomplete will only be assigned when all course material except the final exam has been completed. The Y, which indicates insufficient basis for a grade, will only be assigned to students that completed less than 50% of the course and neglected to drop from the course.

Student Behavior:

Attendance and participation are essential components of this class. Class meetings will center on small group activities, which all students must participate in. Learning is best accomplished through collaboration among students. These student groups work best when they focus is on member's strength rather than their weakness. **As such, derogatory or condescending behavior or remarks towards other students will not be tolerated.**

Although collaboration and group activities are a central part of this course, each student is ultimately responsible to demonstrate their mastery of the subject matter. Classroom activities submitted for credit, including exams and quizzes, must be completed individually unless otherwise stated by the instructor.

If a student misses class, it is that student's responsibility to determine material missed, obtain handouts, make-up assignments (when possible), and to keep track of upcoming assignments and due dates.

PEARSON HOMEWORK ONLINE (WARNING! ATTENTION! CAUTION!)

Beginning fall term 2015 all students completing 100 level biology classes at LBCC are required to participate in an online homework component worth 10% of their grade. This homework can only be completed by paying an outside source (a private business, not the college) to obtain an access code for the homework website. You can acquire this access code through buying the current version of the textbook, buying an access code from the bookstore, or using a credit card on the website registration page. The website address is:

http://www.masteringbiology.com/site/login.html

The course ID for our class is **COLEMAN101F2015**

Exams:

Two one hour exams will be given during regularly scheduled lecture times. These exams will consist of approximately 50% in multiple choice questions and 50% short essay questions. The first exam will cover material from the text readings, lecture, labs, and assignments for weeks one through three. The second exam will cover material from the text readings, lecture, labs, and assignments from weeks four through seven. The final exam will be cumulative covering all material throughout the term and your score will represent your mastery of the subject matter. It is very important that the exams be taken on time, and you will only be excused from an exam for substantial reasons. All excused midterms or exams can be made up with no penalty but they need to be made up within three days. Unexcused exams can be made up within three days, but are only worth 90% of original points. If any exam is not completed within three days, the student will be assigned a "0" for that exam.

Lab Assignments

Lab assignments are due on the day of lab unless otherwise stated by the instructor. If a student misses a lab, they have the option of submitting an assignment, of the instructor's choice, to replace those points missed. However, exam and quiz questions will be formulated using material from the labs and each student needs to understand the material from missed labs. Students may only miss one unexcused lab or will automatically receive an "F' for this course. There are nine pre-labs due at the beginning of the lab period (see schedule and lab packet). These pre-labs are graded and are worth 10 points each. It is imperative that you come to lab prepared for that days activity in order to do well in the lab. Time constraints dictate that every student is prepared before lab starts because otherwise there will not be enough time to finish that lab assignment.

Obtaining Assistance:

Students may drop by the adjunct instructor's office during the office hours listed on page one of this syllabus. Students may also arrange an appointment that better fits their schedule. Students may also e-mail or phone when they have a question (allow 24 hours for e-mail).

Plagiarism Policy

Plagiarism will result in an F for the assignment and, in serious cases, an F for the course. Plagiarism is turning in someone else's work as if it were your own. This includes copying from sources (or making only slight changes), including ideas, words, or facts, without giving credit to your source; copying papers from the internet; cutting and pasting large blocks of information; having someone else write your paper for you. You will receive no credit for something you did not write.

Cheating Policy

We will be performing much collaborative work in this course, and you are encouraged to form study groups prior to exams. However, each student is responsible for demonstrating individual mastery of the subject matter. Cheating on exams and verbatim copying of homework or lab activities will result in a zero grade for that assignment. Continued cheating may result in a failing grade for this course.

Homework Assignments

During the term you will be required to complete a variety of homework assignments. Homework will be due at the beginning of class on their due date and will not be accepted after the first ten minutes of class. If you are going to miss class, you can e-mail the homework to your instructor, turn it in early, or have another student submit it in your place. Late homework <u>will not</u> be accepted.

Late Assignment Policy:

Lecture and lab assignments are due at the beginning of class on the due date of the assignment unless otherwise indicated. The due date will be printed on the assignment or announced in class. Assignments <u>will not</u> be accepted after the due date. If a student must miss class, that student should plan to turn in any assignment before class to receive full credit

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Student Learning Expectations

Students completing biology 101 should be able to apply their biology skills to their own life, as well as, display a fundamental grasp of the following concepts:

1. Apply the species concept to common organisms, and describe biodiversity in terms of number of species, the criteria by which a species might be classified (from domain to species), and how classification reflects phylogeny.

2. Describe where common organisms fit in the species-domain taxonomic scheme, and key features that differentiate these organisms from organisms in other taxa

3. Given a common organism, be able to identify where the organism might live, key adaptations related to the organism's environment and way of life, and why these adaptations may have evolved.

4. List key biotic and abiotic factors that influence the ecosystem. Describe why a particular ecosystem might occur in a particular place, and explain how one might go about studying the ecosystem and the factors shaping it.

5. Given a population of organisms, identify key population parameters (density, dispersion, birth rate, death rate, growth rate, etc.), how the factors interact, and how the population might be affected by biotic and abiotic factors.

6. Through observing an ecological community and the relationships among populations in the community, describe how interactions among populations (competition, predation, mutualism, etc.) might shape community structure and change (how might an introduced insect change the ecosystem?).

7. Through observation of an ecosystem, be able to list and describe the overall trophic structure (producers, consumers, decomposers) of that ecosystem, and how energy and nutrients flow and cycle through the system.

8. Describe and list how humans depend on the environment, major impacts of human population and technology on the environment, ways in which these impacts affect ecosystems, and possible ways to minimize human impacts.

The LBCC community is enriched by diversity. Everyone has the right to think, learn, and work together in an environment of respect, tolerance, and goodwill. I actively support this right regardless of race, creed, color, personal opinion, gender, sexual orientation, or any of the countless other ways in which we are diverse. (related to Board Policy #1015)

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BI 101 Fall 2015 Schedule

CRN 23786-BI101:
Lecture: Tuesday, 1:00 – 3:20, WOH - 217
& LAB Thursday, 1:00 – 3:20, WOH - 218

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Week/Date	Tuesday Lecture	Thursday Lab	Readings
1 Sept. 28 – Oct. 32	Introduction, expectations, Introduction to life on Earth	Lab 1: Biodiversity Crisis	Ch. 1
2 Oct. 5 - 9	Population Growth and Regulation	**Prelab Due** Lab 2: Populations: Survivorship and Dispersion	Ch 26
3 Oct. 12 – 16	Community Interactions	**Prelab Due** Lab 3: Allelopathy	Ch. 27

1st Midterm Exam Tuesday Oct. 20 (Chpts. 1, 26, & 27)

Week/Date	Tuesday Lecture	Thursday Lab	Readings
4 Oct. 19 – 23	**1st Midterm Exam –** **Chpts. 1, 26, & 27** Energy Flow and Nutrient Cycling in Ecosystems Earths diverse ecosystems Conserving Earth's Biodiversity	**Prelab Due** Lab 4: Nutrient Pollution Read Allelopathy data	Ch. 28, 29 & 30
5 Oct. 26 – 30	Systematics: Seeking order amidst diversity The diversity of Prokaryotes and Viruses	**Prelab Due** Lab 5: Microorganisms and Water Quality	Ch. 18 & 19
6 Nov. 2 - 6	The diversity of Protists The diversity of Fungi	**Prelab Due** Lab 6: Fungi, Lichen, and Succession	Ch. 20& 22
7 Nov. 9 - 13	The diversity of Plants	**Prelab Due** Lab 7: Plants	Ch. 21

2nd Midterm Exam Tuesday, November 17 (Chpts. 28, 29, 30, 18, 19, 20, 21 & 22)

Week/Date	Tuesday Lecture	Thursday Lab	Readings
8 Nov. 16- 20	**2nd Midterm** **Chpts. 28, 29, 30, 18, 19, 20, 21 & 22** Animal Diversity 1 – The invertebrates	**Prelab Due** Lab 8: Invertebrate Diversity	Ch 23
9 Nov. 23 - 27	Animal Diversity 1 – The invertebrates Animal Diversity 2 – The Chordates	**No Class** **Thanksgiving Holiday**	Ch. 23 & 24
10 Nov. 30 – Dec. 4	Animal behavior The history of life	**Prelab Due** Lab 10: Vertebrate diversity	Ch.25 & 17
11 Dec. 7 - 11	"**Final exam** **Tuesday Dec. 8th** **2:30 – 4:20 PM** **@ WOH-217**	Final covers everything from term "Cumulative	**Finals week**

Final Exam (Tuesday December 8th, 2:30 – 4:20 PM, @ WOH-217)