

Biology for Non-Majors ONLINE
Biology 110-502
Spring 2016
Syllabus

Instructor: Dr. Miriam J. Chávez
Office: Room 100B, Health Science Building
Office Hours: Monday & Wednesday 8:00-9:00 and 10:30 to 11:30 a.m.
Tuesday & Thursday 10:30 a.m. to Noon
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Course Description:

Introductory biology class covering cell biology, genetics, ecological and evolutionary topics. Credit not allowed for both Biology 123 and 110. Credit is not applicable toward biology major or minor.

Student Learning Objectives:

The course is divided into 6 modules and at the completion of this course, student will be able to:

1. Introduction to biology
 - a. Describe the scientific method
 - b. List the characteristics of living things
2. Chemistry
 - a. Describe the atomic structure
 - b. Compare and contrast the chemical bonds
 - c. Compare and contrast the four major organic molecules
3. Cells
 - a. Identify and give function of structures
 - b. Describe cellular transport
 - c. Explain cellular metabolism and photosynthesis
4. Genetics
 - a. Describe the DNA structure
 - b. Summarize replication, transcription and translation
 - c. Explain cellular division
 - d. Solve genetic problems

5. Ecology and evolution
 - a. Describe the process of evolution
 - b. Explain how organism interact with each other and environment
6. Diversity
 - a. Describe plant diversity
 - b. Describe animal diversity
 - c. Describe microbial diversity

Required Learning Resources:

1. Text: Biology: Essentials by Hoefnagel, 2nd edition, 2016, McGraw Hill Publisher (ISBN 978-1-259-29498-3)

<http://connect.mheducation.com/class/m-chavez-valencia---biology-110---502-spring-2016>

2. Course Webpage: <https://learn.unm.edu/>. The webpage contains resources you need to succeed in the course. Login using your UNM user name and password. ***You are responsible for all announcements, assignments, quizzes, tests and/or any changes to the syllabus will be posted on the webpage. I strongly urge you to check each week for assignments and due dates.***

3. LearnSmart: There is a LearnSmart assignment for every chapter covered. You are responsible for completing 17 assignments; these are ONLY available through the McGraw Hill Connect webpage.

You will earn ten points for completing the LearnSmart (LS) assignment. To earn full credit they must be completed by the due date. These assignments are to help you understand the material that was covered in the chapter. They will help you do well in the quizzes and exams.

Course Policies:

- 1. Assignments.** There will be weekly assignments that must be turned in by Sunday at 11:59 p.m. The assignments will be based on the readings and will help you to understand and learn the topic for the week. You are allowed to get help from a tutor or work with another student. I also encourage you to contact me if you have any questions, but do not wait until the last minute. ***The assignment has to be written in your own words.***
- 2. Quizzes.** Quizzes will be timed and you will be allowed to take each quiz twice if needed. You will also be allowed to drop one quiz. All quizzes are to be taken by Thursday by 11:59 p.m. Quizzes will be available on Wednesday morning.
- 3. Exams.** You will have a limited time to take each exam and only allowed to take it once. Prepare yourself and give yourself plenty of time before starting the exam. All exams are to be taken on Thursday by 11:59 p.m. The exams will be available on Tuesday morning.

4. **Withdrawal.** If a student drops the course before February 5, it will not appear on their transcript. After February 5 a “W” will be issued.
5. **Drop policy.** If the student has missed three assignments/quizzes, he/she will be dropped from the class
6. **Study habits.** To be an effective professional, information must be learned and retained efficiently. Studies have shown that information which is “experienced” a number of times within a short period of time frequently goes into long-term memory. Be an active student.
 - Look and read the chapter outline after reading the outline for each week.
 - Read the chapter. It will take you **more than one** reading to understand the material presented.
 - Learn the vocabulary.
 - Look at the PowerPoint slides.
 - Keep up with the assignments.
 - Give yourself plenty of time to study for a quiz or exam.

Special Needs:

Qualified students with disabilities needing appropriate academic adjustments should contact the instructor by the end of the 1st week of the semester to ensure that your needs are met in a timely manner.

Academic Dishonesty:

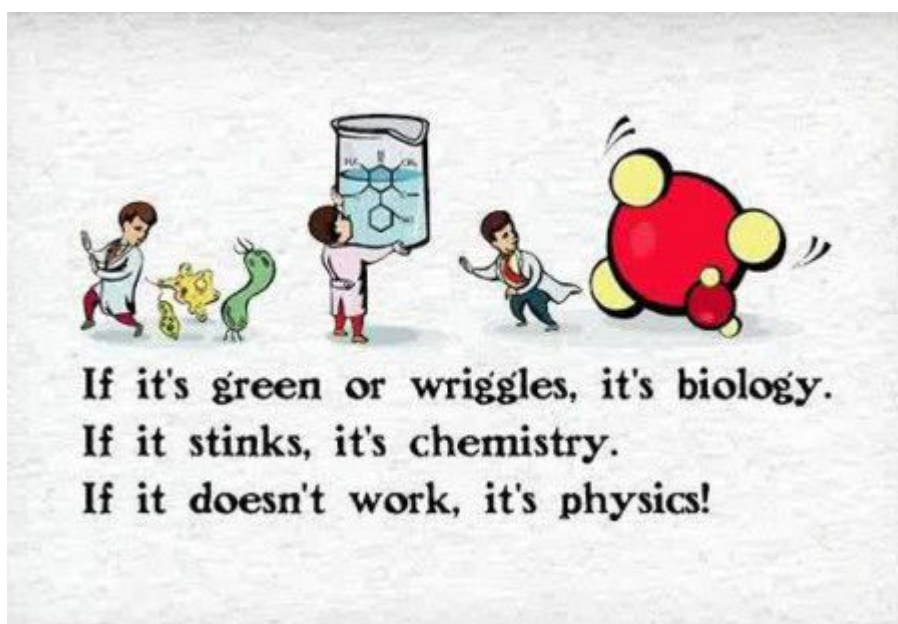
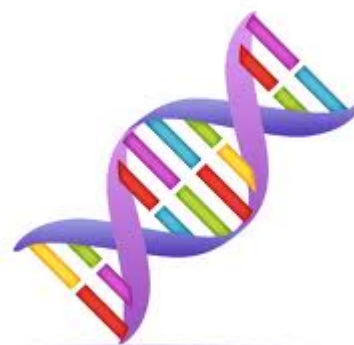
Each student is expected to maintain the highest standards of honesty and integrity in academic and professional matters. The University reserves the right to take disciplinary action, up to and including dismissal, against any student who is found guilty of academic dishonesty or otherwise fails to meet the standards. Any student judged to have engaged in academic dishonesty in course work may receive a reduced or failing grade for the work in question and/or for the course. Academic dishonesty includes, but is not limited to, dishonesty in quizzes, tests, or assignments; claiming credit for work not done or done by others; hindering the academic work of other students; misrepresenting academic or professional qualifications within or without the University; and nondisclosure or misrepresentation in filling out applications or other University records.

Grading Criteria for Assigning Final Course Grade:

Exams (3)	300 points
Final Exam	110 points
Connect LS Assig. (17)	170 points
Quizzes (5 out of 6)	125 points
Assignments (14)	140 points
Introduction Hmk	15 points

The student's total points will be divided by the total possible points (860) and the grade earned will be based on the following percentage:

100 or higher – A+	77-79 – C+
94-99 – A	73-76 – C
90-93 – A-	70-72 – C-
87-89 – B+	60-69 – D
83-86 – B	below 60 – F
80-82 – B-	



Course Outline

Week	Week of	Chapter - Topic
1	January 18	Ch. 1 - Scientific Study of Life
		Introduction - Assignment 1 Due
2	January 25	Ch. 2 - Chemistry
		Assignment 2 Due Quiz 1
3	February 1	Ch. 3 - Cells
		Assignment 3 Due
4	February 8	Ch. 3 - Cells
		Assignment 4 Due Quiz 2
5	February 15	Ch. 4 – Energy of Life Ch. 5 - Photosynthesis
		Assignment 5 Due Exam 1
6	February 22	Ch. 6 – How Cells Release Energy
		Assignment 6 Due Quiz 3
7	February 29	Ch. 7 – DNA Structure and Function Ch. 10 – DNA Technology
		Assignment 7 Due
8	March 7	Ch. 8 – DNA Replication, Binary Fission and Mitosis Ch. 9 – Sexual Reproduction and Meiosis
		Assignment 8 Due Exam 2
9	March 14	Spring Break – No assignment due this week
10	March 21	Ch. 10 – Patterns of Inheritance
		Assignment 9 Due Quiz 4
11	March 28	Ch. 10 – Patterns of Inheritance
		Assignment 10 Due
12	April 4	Ch. 12 & 13 - Evolution
		Assignment 11 Due Quiz 5
13	April 11	Ch. 16 – Diversity of Plants
		Assignment 12 Due Exam 3
14	April 18	Ch. 17 – Diversity of Animals
		Assignment 13 Due
15	April 25	Ch. 15 – Diversity of Microbial Life
		Assignment 14 Due Quiz 6
16	May 2	Ch. 18 – Populations Ch. 19 – Communities and Ecosystems
	Thursday, May 11	Final Exam

** I reserve the right to make necessary changes throughout the course.