



VALENCIA

Fall 2018

Biology 110—502 Syllabus

COURSE INFORMATION

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 5 modules and at the completion of this course, student will be able to:

Introduction to biology

- Explain the nature and process of science
- Analyze data, construct and interpret graphs
- Critically evaluate scientific information and develop a testable hypothesis to explain phenomena of the natural world

Chemistry

- Describe the atomic structure of an atom
- Identify macromolecules of life and explain how their structures relate to their functions in cells

Cells

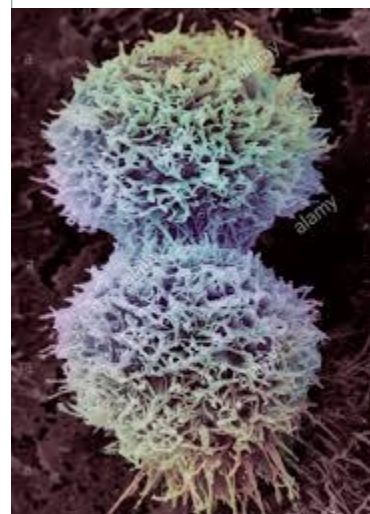
- Describe how cellular structures and functions are related
- Explain energy transformation pathways in autotrophs and heterotrophs

Genetics

- Describe the DNA structure
- Explain the basic mechanisms of inheritance from the molecular to organismal level

Ecology and evolution

- Define biological evolution by natural selection and explain microevolution and macroevolution
- Explain the basic principles of ecology and population, community and ecosystem levels



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INSTRUCTOR

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- Office Hours:
Mon—Thurs 8:00—9:00 a.m.
Tues & Thurs 10:30 to Noon



REQUIRED LEARNING RESOURCES

- 1. Text: Concepts of Biology.** This book is available in web view and PDF for free from Openstax.org. You can also get the digital version from Amazon for free or a printed copy for a low cost.
- 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.***
- 3. Technology & Computer:** In this course, you will need the following technology and computer requirements:
 - Dependable computer
 - Reliable internet connection
 - Computer speakers
 - Reliable web browser
 - Microsoft Suite (PowerPoint and Word)
 - Adobe Flash Player
 - Ability to use Blackboard Learn

“If you can dream it, you can do it” — Walt Disney

COURSE POLICIES

Assignments. There are seven assignments that must be turned in by Sunday at 11:59 p.m.; you will have about two weeks to work on the assignment. These assignments must be turned in through Learn and are based on the readings. 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.***

Review Packets. There will be three review packets assigned throughout the semester. These assignments will help you apply the material that you have learned.

Late assignment/homework/case studies. Late assignments will only be accepted within the first week following the due date. There will be a 50% reduction in grade. I will not accept assignments after the first week.

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.

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.

Withdrawal. If a student drops the course before September 7 it will not appear on their transcript. After September 7 a “W” will be issued.

Drop policy. If the student has missed three assignments/quizzes, he/she may be dropped from the class. Also, if a student has not logged in to Learn in two weeks he/she may be dropped.

THINGS TO KEEP IN MIND

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.

Equal Opportunity and Non-discrimination:

In an effort to meet obligations under Title IX, UNM faculty, Teaching Assistants, and Graduate Assistants are considered “responsible employees” by the Department of Education (see page 15 - <http://www2.ed.gov/about/offices/list/ocr/docs/qa-201404-title-ix.pdf>). This designation requires that any report of gender discrimination which includes sexual harassment, sexual misconduct and sexual violence made to a faculty member, TA, or GA must be reported to the Title IX Coordinator at the Office of Equal Opportunity (oeo.unm.edu). For more information on the campus policy regarding sexual misconduct, see: <https://policy.unm.edu/university-policies/2000/2740.html>.



Develop good study habits. Don't wait until the last minute.

GRADING CRITERIA—

For Assigning Final Course Grade:

Assignments (9)	90 points
Introduction quiz	20 points
Reviews (3)	75 points
Quizzes (4 out of 5)	100 point
Exams (3)	300 points
Final Exam	125 points

The student's total points will be divided by the total possible points (710) 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-	

TIPS FOR SUCCESS

PowerPoint Slides. Use the PowerPoint slides for each chapter to guide your reading the chapter. The Learning objectives should be used to make sure that you understand the material for each chapter.

Study habits. Look and read the chapter. It may take more than one reading to understand the material presented. Learn the vocabulary.

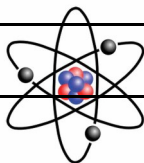
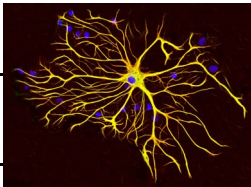
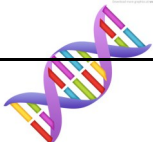
Office hours. I am available to help you succeed in the class; stop by my office and I can clarify information or help you with homework.

Learning Center. The learning center has tutors ready to help Biology 110 students. Call the learning center at 925-8907 for available hours. They prefer to make appointments, but if they are not busy you may be able to drop in and find an available tutor. Appointments typically last one hour. Their website is <http://valencia.unm.edu/campus-resources/the-learning-center/index.html>.

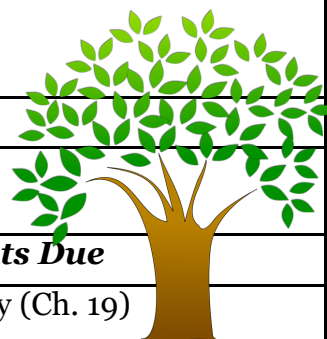
Email netiquette. Include an informative subject line (class and concern -- Bio 110, quiz 3); include a salutation and closing (sign your name); do not use IM or TXT spelling, but instead use standard English.

SAGE. SAGE (Student Alerts and Grouped Events) is the new Early Alert referral program I will use to send out emailed alerts to both students and staff regarding student progress. This enables streamlined communication between faculty, students and staff to help students succeed at Valencia. Students may receive SAGE referrals on tutoring needs, grades, attendance issues, missing assignments, etc., as well as kudos for a job well done.

COURSE OUTLINE

Week	Week of	Chapter - Topic
1	August 20	MODULE 1 – INTRO TO BIOLOGY
		Assignment 1 Due 
2	August 27	MODULE 2 – CHEMISTRY
		Intro Quiz Due
3	September 3	MODULE 3 – CELLS 
		Assignment 3 Due
4	September 10	Cells (Ch. 3)
		Assignment 4 Due
5	September 17	Review #1
		Exam 1 (Chapters 1-3)
6	September 24	How Cells Obtain Energy (Ch. 4)
		Assignment 5 Due
7	October 1	MODULE 4 – GENETICS 
8	October 8	Exam 2 (Chapters 4, 5,9)
		<i>Fall Break—No assignments Due</i>

Week	Week of	Chapter - Topic
9	October 15	Reproduction at the Cellular Level (Ch. 6)
10	October 22	Cellular Basis of of Inheritance (Ch. 7) Patterns of Inheritance – part I (Ch. 8)
		Assignment 6 Due Quiz 4
11	October 29	Patterns of Inheritance – part II (Ch. 8)
		Assignment 7 Due
12	November 5	Review #2
		Exam 3 (Chapters 6-8)
13	November 12	MODULE 5 – ECOLOGY & EVOLUTION Evolution & Its Processes (Ch. 11)
		Assignment 8 Due
14	November 19	Diversity of Plants (Ch. 14) Diversity of Animals (Ch. 15)
		Thanksgiving—No Assignments Due
15	November 26	Population and Community Ecology (Ch. 19)
		Assignment 9 Due
16	December 3	Review #3
	Wednesday, December 12	Final Exam



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