

# Biology 123: Biology for Health-Related Sciences/ Non-Majors



## UNM Valencia Campus

**Semester:** Summer

**Year:** 2019

**CRN #:** 14697 Section 501. Tuesdays & Thursdays 9:00-11:45 in AS133

**Credits:** 3 credit hours

**Course Description:** This course is an overview of biological principles important for the health sciences majors and non-major in today's world. Principles of biochemistry, cell biology, genetics, and organismic biology are addressed. *Credit is not applicable toward a biology major or minor.*

**Instructor:** Dr. Ben Flicker

**Contact Information:** My office is in A132 in the Arts and Sciences building. My phone number on campus is 505-925-8726. My email address is benflicker@unm.edu. Email is the best way to contact me.

**Office hours:** Tuesdays 8:00-9:00, Thursdays 8:00-9:00, or by appointment.

**Textbook:** *Inquiry into Life*, Sylvia S. Mader & Michael Windelspecht, 2017. 15th edition, McGraw Hill. **Required.**

**UNM Learn:** Course materials will be posted on the course website (<https://learn.unm.edu>) This includes the syllabus, all assignments and announcements, as well as links to email the instructor and other students in the course. You are responsible for all such communication on the learn course page, so please check regularly.

### Student Learning Objectives:

- 1.) Students will display an understanding of the logic of scientific research.

- 2.) Students will show comprehension of the chemistry of life including: atomic structure and bonding, movement of molecules, important biological molecules, and metabolic pathways and reactions.
  - 3.) Students will exhibit familiarity with the structure, function and replication of cells and DNA.
  - 4.) Students will demonstrate knowledge of basic concepts and mechanisms of human genetics and inheritance.
  - 5.) Students will understand basic concepts of human physiology including tissue, organ and organ system structure and functions.
- The goal of this class is to help you become literate in these scientific concepts and be able to apply them in your life as you move forward.

**Attendance: Attendance is Required for all classes.** Students are responsible for getting information presented in any class missed. Students may be dropped from the class after 2 absences. Attendance will be taken via a daily sign-in sheet. Excessive tardiness (greater than 10 minutes) will be counted as an absence. Quizzes and Exams will begin promptly at the beginning of the period. **Arriving late for a quiz or exam could result in a score of zero.**

Summer attendance is especially important. As we cover 16 weeks of material in 8 weeks, each meeting covers a full week's worth of material. If you miss a class, **you** are responsible for making up missed material. You will not be able to make up for excessive absences. If you plan on taking a vacation in the middle of the semester, reconsider whether you can take this course.

**Learning Center:** The learning center has tutors ready to help Biology 123 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://www.unm.edu/~tutor/index.html>.

**Withdrawal:** If you drop the course after the drop deadline, you will receive a grade of 'W'.

**Missed exam/quiz policy:** Only official documentation of a medical or family emergency will excuse a missed exam or quiz. In such an instance please contact me as soon as possible to arrange a potential make-up. Un-excused absences on an exam/ quiz date will result in a grade of zero for the assessment.

**Students with disabilities:** Qualified Students with disabilities should see me or the campus testing center as soon as possible so we can meet your needs suitably and quickly.

**Learning Objectives:** For each chapter/ topic covered, you will be provided with a list of learning objectives. This list will include the relevant vocabulary terms and concepts that will be covered in that chapter and that you will be responsible for on quizzes and exams.

**Exams:** 4 exams will be given. The first 3 will be worth 100 points each. The final exam will be cumulative, comprised of new material covered since the third midterm as well as all previous material. The final exam will be worth 150 points.

**Homework:** Homework assignments will be given in class **daily**. They will be a combination of reinforcement of in-class learning objectives as well as reading assignments for introducing new material. They will be due the class period immediately after they are assigned. If you miss a class period, you will be responsible for obtaining that day's homework assignment (either from learn or from contacting me) and submitting on the due date.

**Study Aids:** Studying the sciences is, in some ways, similar to learning a foreign language. There are a lot of vocabulary terms that are critical to learn in order to understand the concepts of the course. To aid in that I highly recommend making flash cards of the relevant vocabulary terms given out by the instructor. A course web page of these critical vocabulary terms has been set up on the studyblue ([studyblue.com](http://studyblue.com)) server for use on computers and smartphones.

**Course Grading Policy:** Lecture grades will be based on the percentage of points earned (100% or higher = A+, 99-91% = A, 90% = A-. 88-89% = B+, 87-81% = B, 80% = B-, 79-78% = C+, 77-71% = C, 70% = C-, 69-68% = D+, 67-61% = D, 60% = D-, < 60% = F.

- 195 points: Homework assignments (13 assignments @ 15 points each)
- 85 points: Class participation & attendance
- 300 points: Exams (3 exams @ 100 points each)
- 150 points: Cumulative final exam
- = 730 Total points

Week	Subjects covered	Homework/ Quizzes
6/4/19	Course Introduction, Chapters 1 & 2	Homework 1
6/6/19	Chapter 2 (part 2)	Homework 2
6/11/19	Chapter 3: part 1	Homework 3
6/13/19	Chapter 3: part 2, Chapter 4	Homework 4
6/18/19	Exam 1, Chapter 5	Homework 5
6/20/19	Chapter 6	Homework 6
6/25/19	Chapter 7	Homework 7
6/27/19	Exam 2, Chapter 8 part 1	
7/2/19	Chapter 8 part 2	Homework 8
7/4/19	<b>No Class: Holiday</b>	
7/9/19	Chapter 9	Homework 9
7/11/19	Chapter 10	Homework 10

7/16/19	Exam 3, Chapter 11	Homework 11
7/18/19	Chapter 12	Homework 12
7/23/19	Chapter 13, Lecture review	Homework 13
7/25/19	Final Exam	

\* Instructor reserves the right to alter course schedule as the semester progresses. Students will be given advance notice (at least 1 week) of any change in dates of quizzes, homework assignments, or midterm exams.

Thank you for registering for Biology 123 at UNM-VC. I am very excited to be here to help you continue your education and achieve your goals.