

Biology 124: Biology for Health-Related Sciences Lab



UNM Valencia Campus

Semester: Spring

Year: 2019

CRN #: 33649, section 503

Credits: 1 credit hour

Course Description: This course is an overview of biological principles and laboratory techniques important for health science majors and non-majors. *Credit is not applicable toward a biology major or minor.*

Instructor: Dr. Julie Lovchik

Contact Information: My office is in the Adjunct Faculty offices in the Academic Affairs Office. My campus phone number is 505-272-4050. My email address is jlovchik@salud.unm.edu. Aside from my office hours and immediately before and after class, email is the best way to contact me.

Office hours: Tuesdays 2:00-3:00, or by appointment.

Course Book: There is **No** lab manual for this class. However, the labs you will be conducting will be provided to you in advance on the course webpage: learn.unm.edu in the "lab exercises" section. It is **your responsibility** to print these labs out before class and have them ready at class time. You are **required** to do so for each lab (with the exception of the first lab and the exam weeks).

Student Learning Objectives:

- 1.) Students will display an understanding of the scientific method.
- 2.) Students will show the ability to analyze and interpret experimental data.
- 3.) Students will exhibit familiarity with basic cellular structure and anatomy.
- 4.) Students will demonstrate competency with basic microscopy.

Attendance: Attendance is Required for all classes. Labs cannot be made up. Students may be dropped from the class after 3 absences. Attendance will be taken via a daily sign-in sheet. Excessive tardiness (greater than 10 minutes) will be counted as an absence.

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

Missed quiz policy: Missed quizzes cannot be made up! Due to the practical nature of these, they can only be set up once.

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

Title IX: 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 pg 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](https://policy.unm.edu/university-policies/2000/2740.html)

Citizenship and/or Immigration Status: All students are welcome in this class regardless of citizenship, residency, or immigration status. Your professor will respect your privacy if you choose to disclose your status. As for all students in the class, family emergency-related absences are normally excused with reasonable notice to the professor, as noted in the attendance guidelines above. UNM as an institution has made a core commitment to the success of all our students, including members of our undocumented community. The Administration's welcome is found on our website: <http://undocumented.unm.edu/>.

Laboratory Policies:

- 1.) No food or drink is allowed in the lab at any time.
- 2.) No chewing gum in the lab.
- 3.) Please turn off cell phones
- 4.) Come on time and be prepared for the lab activity and quiz for that day.
- 5.) Treat all lab equipment carefully and with respect

Course Webpage: The course webpage can be found by logging in to learn.unm.edu. There, I will post course documents like the syllabus, exam study guides, and other relevant course material. Any course announcements will be made on this webpage, so be sure to check it regularly.

Grading:

Quizzes: 5 quizzes will be given throughout the term. These will be worth 25 points each. They will cover recent lab activities and be a mixture of practical and written elements. The lowest quiz grade will be dropped.

Exams: 2 practical exams will be administered during the term. They will be a mixture of both practical and written questions. Exam study guides will be provided for both. The final will not be cumulative.

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.

- 98 points: Participation (14 lab exercises @ 7 points each)
 - 100 points: Quizzes (4 quizzes @ 25 points each)
 - 100 points: Midterm Practical Exam
 - 100 points: Final Practical Exam
 - 2 points: Free!
- = 400 Total points

Schedule

Date	Lab Exercise	Quiz:
1/15/19	Scientific Method/ Epidemiology	
1/22/19	Biological Molecules	
1/29/19	Microscopy & Cell Biology	Quiz 1
2/5/19	Diffusion and Osmosis	
2/12/19	Enzymes	Quiz 2
2/19/19	Mitosis	
2/26/19	Genetics I	Quiz 3
3/5/19	Midterm Practical Exam	
3/12/19	Spring Break: No Class	
3/19/19	Genetics II	
3/26/19	Genetics III/ Cellular Respiration I	
4/2/19	Cellular Respiration II	Quiz 4
4/9/19	Cardiovascular System	
4/16/19	Fetal Pig	Quiz 5
4/23/19	Fetal Pig	
4/30/19	Final Practical Exam	