

Biology 1140L: Biology for Health-Related Sciences Lab

UNM Valencia Campus

Semester: Spring

Year: 2022

CRN #: 56371 section 502

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. Ben Flicker

Contact Information: My office is H100B. My phone number on campus is 505-925-8726. My email address is benflicker@unm.edu. Aside from my office hours and immediately before and after class, email is the best way to contact me.

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).

Drop-in hours: These are times when I will be available in my office for student questions or other issues. Mondays 10:30-12:00 & 1:00-2:30, Tuesdays 10:30-12:00, Wednesdays 12:00-2:00, Thursdays 12:00-1:30, or by appointment.

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>

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/>.

Syllabus Language: UNM Administrative Mandate on Required Vaccinations

UNM requires COVID-19 vaccination and a booster for all students, faculty, and staff, or an approved exemption (see: [UNM Administrative Mandate on Required Vaccinations](#)). Proof of vaccination and booster, or a [medical, religious, or online remote exemption](#), must be uploaded to the [UNM vaccination verification site](#). Failure to provide this proof may result in a registration hold and/or disenrollment for students and disciplinary action for UNM employees.

Booster Requirement: Individuals who received their second dose of a Pfizer or Moderna vaccine on or before June 15, 2021, or their single dose of a Johnson & Johnson vaccine on or before October 15, 2021, *must provide documentation of receipt of a booster dose no later than January 17, 2022.*

Individuals who received their second dose of a Pfizer or Moderna vaccine after June 15, 2021 or who received their single dose of Johnson & Johnson after November 15, 2021 *must provide documentation of receipt of a booster within four weeks of eligibility*, according to the criteria provided by the FDA (6 months after completing an initial two-dose Moderna vaccine, 5 months after completing the Pfizer sequence, and 2 months after receiving a one-dose Johnson and Johnson vaccine).

Exemptions: Individuals who cannot yet obtain a booster due to illness should request a [medical, religious, or online remote exemption](#) (which may have an end date) and upload this to the [vaccination verification site](#).

Medical and religious exemptions validated in Fall 2021 (see your email confirmation) are also valid for Spring 2022 *unless an end date was specified in the granting of a limited medical exemption*. Students must apply for a remote online exemption every semester.

Syllabus Language: UNM Requirement on Masking in Indoor Spaces

All students, staff, and instructors are required to wear face masks in indoor classes, labs, studios and meetings on UNM campuses, see the [masking requirement](#). Students who do not wear a mask indoors on UNM campuses can expect to be asked to leave the classroom and to be dropped from a class if failure to wear a mask occurs more than once in that class. Students and employees who do not wear a mask in classrooms and other indoor public spaces on UNM campuses are subject to disciplinary actions. **Medical/health grade masks are the best protection against the omicron variant and these masks should be used, rather than cloth.**

Syllabus Language: COVID-19 Symptoms and Positive Test Results:

Please do not come to a UNM campus if you are experiencing symptoms of illness, or have received a positive COVID-19 test (even if you have no symptoms). Contact your instructors and let them know that you should not come to class due to symptoms or diagnosis. Students who need support addressing a health or personal event or crisis can find it at the [Lobo Respect Advocacy Center](#).

The instructor will try to have a few disposable masks available in the classroom on a first-come, first-served basis.

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 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.

Laboratory Policies:

- 1.) No food or drink is allowed in the lab at any time.
- 2.) No chewing gum in the lab.
- 3.) Absolutely no horseplay will be tolerated.
- 4.) Come on time and prepared for the lab activity and quiz for that day.
- 5.) Treat all lab equipment carefully and with respect

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.

- 99 points: Participation (11 lab exercises @ 9 points each)
- 100 points: Quizzes (4 quizzes @ 25 points each)
- 100 points: Midterm Practical Exam
- 100 points: Final Practical Exam
- 1 point: Free!
- = 400 Total points

Date	Lab Exercise	Quiz:
1/18/2022	No Lab	
1/25/2022	Course Intro/Scientific Method	
2/1/2022	Aseptic Method and Graphing	
2/8/2022	Biological Molecules	Quiz 1
2/15/2022	Microscopy and Cell Biology	
2/22/2022	Diffusion and Osmosis	Quiz 2
3/1/2022	Enzymes	
3/8/2022	Midterm Practical Exam	
3/15/2022	Spring Break: No Class	
3/22/2022	Cellular Respiration I	
3/29/2022	Cellular Respiration II	Quiz 3
4/5/2022	Genetics I	
4/12/2022	Genetics II	Quiz 4
4/19/2022	Mitosis	
4/26/2022	Makeup/Review Week	Quiz 5
5/3/2022	Final Practical Exam	