

Biology 1140L: Biology for Health-Related Sciences Lab

UNM Valencia Campus

Semester: Summer

Year: 2020

CRN #: 28157 section 501

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: Most of the labs you will be conducting will be ‘virtual labs’ available through McGraw-Hill Cconnect. You are required to obtain access and complete these labs. Access to these are available by registering here: <https://connect.mheducation.com/class/f-ben-summer-2020>. Access to this service is \$90, with the first two weeks available for free. Access to this also includes access to the ebook, which fills the book requirement if you are in the lecture class.

Office hours: As long as campus remains open, I will be available for in-person (wearing masks, six feet apart) office hours. These will be held Mondays 10:00-1:00 and Wednesdays 10:00-1:00. I will also be available to meet over Zoom during these times. If you prefer to meet with me over Zoom, email me to set up a time and I will create a meeting for us and send you the link.

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.

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

Assignment Deadlines: While our labs and the corresponding quizzes and exams are all online, there will still be due dates for these assignments. If you find that you need an extension, contact the instructor as soon as possible. Extensions will be granted on a case-by-case basis.

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/>.

Lab Exercises: This summer's lab will be composed of virtual labs that you will access on the McGraw-Hill connect site as well as some that will be activities posted to the learn page that you will complete. Each activity will have a

corresponding video in the 'class video' section on the learn page providing a little background on the topic/activity that day. These lab assignments will, with the exception of exam weeks, be posted two-per-week, with one posted Monday and the other Wednesday. These will be due at the end of that week (Sunday evening).

Weekly To-Do List: To make your responsibilities each week clear, a to-do list for each week will be posted to the course learn page in the 'Weekly To-Do Lists' section. This will include all lab assignments, quizzes, and exams that will be due by the end of that week. This will be posted by Monday afternoon each week.

Quizzes: 5 quizzes will be given throughout the term. These will be worth 15 points each. They will cover recent lab activities and their corresponding videos. These will be due at the end of the week on which they are assigned (Sunday evening).

Exams: 2 exams will be administered during the term. They will be based upon the video introducing the topics as well as the lab activities themselves. Exam study guides will be provided for both. The final will not be cumulative.

Weekly Zoom Meetings: For a chance to interact and answer questions, optional, weekly Zoom meetings will be held. Links to these meetings will be posted in the 'Zoom meetings' section on the class learn page. The time of these meetings will be determined by a class vote in the discussion board page. This is a chance for the class to ask any questions, and also the instructor will provide review and practice problems based on the week's material. These meetings will be recorded and posted to the learn page for those unable to attend.

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.

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.

- 130 points: Participation (13 lab exercises @ 10 points each)
- 75 points: Quizzes (5 quizzes @ 15 points each)
- 100 points: Midterm Practical Exam
- 100 points: Final Practical Exam
- = 405 Total points

Date	Lab Exercise	Quiz:
6/1/2020	Course Intro/ Scientific Method	
6/3/2020	Virtual Lab Tour (Connect)	
6/8/2020	Virtual Lab: Chemistry of Cells	Quiz 1
6/10/2020	Virtual Lab: Microscopy	
6/15/2020	Virtual Lab: Diffusion	Quiz 2
6/17/2020	Virtual Lab: Osmosis	
6/22/2020	Virtual Lab: Cellular Respiration	Quiz 3
6/24/2020	Midterm Practical Exam	
6/29/2020	Virtual Lab: Genetics 1	
7/1/2020	Virtual Lab: Genetics 2	
7/6/2020	Virtual Lab: Mendel 1	Quiz 4
7/8/2020	Virtual Lab: Mendel 2	
7/13/2020	Cardiovascular System	Quiz 5
7/15/2020	Virtual Lab: Digestive System	
7/20/2020	Final Exam	