

# Biology 124: Biology for Health-Related Sciences Lab

## UNM Valencia Campus

**Semester:** Fall

**Year:** 2015

**CRN #:** 40987 section 505

**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 in the Academic Office in the Arts and Sciences building. My phone number on campus is 505-925-8600. 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.

**Office hours:** Tuesdays 9:30-10:00, Wednesdays 12:00-1:30, or by appointment.

**Textbook:** *Thinking About Biology: An Introductory Laboratory Manual*. Mimi Bres & Arnold Weisshaar, 2016. 5th edition, Pearson Education, Publisher. This book is **Required** for the course.

### 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 animal 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. 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.**

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

**Missed exam/quiz policy:** Missed quizzes and exams 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.

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

**Exams:** 2 exams will be given, a midterm and a final.

**Quizzes:** 10 quizzes will be given throughout the quarter. These will be worth 10 points each with the lowest grade dropped (for a total of 90 points towards the final semester grade). These will be given promptly at the beginning of each lab period (other than exam dates-see calendar). **Late arrival for lab will result in a zero for your quiz grade that day. Please arrive on time for class.**

**Course Webpage:** The course webpage can be found by logging in to [learn.unm.edu](http://learn.unm.edu). There, I will post course documents like the syllabus as well as the learning objectives, exam study guides, and other relevant course material.

### 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.

- 30 points: Attendance (15 meetings @ 2 point each)
- 72 points: Participation (12 lab exercises @ 6 points each)
- 90 points: Quizzes (9 quizzes @ 10 points each)
- 200 points: Exams (2 exams @ 100 points each)
- 8 points: Free!
- = 400 Total points

Date	Lab Exercise	Activities	Quiz
08/20/15	#1 Scientific Method	1,2,3,4,5,6	
08/27/15	#7 Organic Molecules	1,2	#1
09/03/15	#2-#3 Microcopy/ Cell Biology	1,3,4,5,6/ 1,3,4	#2
09/10/15	#4 Diffusion and Osmosis	1,2,3,4	#3
09/17/15	#8 Enzymes	1,3	#4
09/24/15	#9-#10 Molecular Genetics/ Mitosis	1,2,3,4,5/ 1,2,3	#5
10/01/15	Midterm Practical Exam		
10/08/15	Fall Break: No Class		

10/15/15	#11 Meiosis and Genetics	1,2,3,4,5,6,7	
10/22/15	#12 Human Genetics	1,2,3,5	#6
10/29/15	#14 Tissues and Organs	1,2,3,6,7	#7
11/05/15	#15 Cardiovascular System	1,2,3,4	#8
11/12/15	#16 Fetal Pig I	1,2,3,4,5,6	#9
11/19/15	#17 Fetal Pig II	1,2,3,4,6	#10
11/26/15	<b>Thanksgiving: No Class</b>		
12/03/15	<b>Final Practical Exam</b>		