

## ***Biology 112L Fall 2015***

***Instructor:*** Dr. Sonia Suri

***Office:*** Academic Affairs Office, Room 113, Cubicle 15.

***Office Hours:*** Students are encouraged to meet me during my office hours, you do not need an appointment for my regular office hours; Tuesday 10:45am-11:45am.

Students can also contact me via email anytime or fix an appointment, I will try to accommodate to meet with you on other days. My Phone number (no Voicemail) 505-925-8635 if you want to leave a message the number is 505- 925 -8600.

***Lab time:*** Tuesday 12:00-2:45pm -room A 135 in the Academic Building.

***Student Learning Outcomes:*** This laboratory course is designed to familiarize you with techniques used in biology.

By the end of the semester student should be able to

1. Describe the process of scientific inquiry.

(Addresses to UNM/HED Area III, Competencies 1,2,3,5.)

2. The ability to apply lecture concepts in a laboratory setting.

3. To obtain basic laboratory skills such as microscopy, measuring, etc.

4. To understand enzyme systems and energy systems.

(Addresses to UNM/HED Area III, Competencies 3,5)

5. Explain basic mechanisms of inheritance.

(Addresses to UNM/HED Area III, Competencies 3,5)

6. The ability to quantitatively and analyze the data and construct graphs.

(Addresses to UNM/HED Area III, Competencies 2,4)

7. Explain basic principles of ecology .

(Addresses to UNM/HED Area III, Competencies 3,5)

**Laboratory and Safety Conduct:** Food and drinks are NOT allowed in the lab. Please store your personal items in cabinets.

1. Wash and clean all glassware and workbenches
2. Put away all materials and glassware in their proper place
3. Throw away any paper towels, wipes, etc. you have used.
4. Place all materials for disposal in the appropriate containers.
5. Clean all bench tops with disinfectant.

**Required Lab Manual:** Thinking About Biology, An Introductory Lab Manual 5<sup>th</sup> edition by Mimi Bres and Arnold Weisshaar.

**Attendance:** 10%    **Pre Lab and lab Assignments:** 30%    **Attendance:** 10%  
**Quizzes (4 out of 5):** 20%    **Midterm Exam:** 20%    **Final Exam:** 20%

Grades will be assigned on percentage as listed below:

97% and up = A+	91%-97% = A	90%-92.9% = A-
87%-88.9% = B+	83%-85.9% = B	80%-81.9% = B-
77%-78.9% = C+	73%-75.9% = C	70%-71.9% = C-
60%-68.9% = D	Below 59.9% = F	

**Quizzes and Exams:** Quizzes and exams will cover the material learned in lab. I will drop the lowest quiz. There are no make exams in this course. Make up quizzes will be given at instructor's discretion and will be based on case-to-case bases. An un-excused absence will result in loss of points of the quiz.

**Grading:** Course grade is based on pre lab and lab assignments, quizzes, attendance, mid term lab exam and final lab exam.

**Cell Phones:** Please turn off the cell phones when in class. Texting is not allowed in class. If cell phone is out during the quiz or exam it will result in failing grade for that quiz or exam.

**Attendance Policy:** Regular and punctual attendance is required. Instructor can drop student for non-attendance. Each missed lab will result in loss of those lab points. There is no make up for laboratory exercises under any circumstances.

**F.E.R.P.A.:** According to Federal Family Educational Rights and Privacy Act prohibits disclosure of grades to anyone else other than student. I will not give out any grades over the phone or email.

**Course Policies: Technology and Media:** All students enrolled at the University shall follow the policies in student catalog for positive learning environment (see Student's Guide Handbook, Policies and Procedures, Conduct.) Students are responsible for maintaining the scholarship or funding for the class.

**Email:** You are required to check for messages from your instructor so as to not miss important updates. **For confidentiality reasons, your instructor will only reply and send course emails to your UNM account.** If you wish to send an email to your instructor, you must not use your **personal email accounts!** Emails will usually be answered within 24 hours, excluding holidays and weekends.

**Extra Credit:** Pre lab pop quizzes will be given out from time to time throughout the course of the semester to bring up grades. Student has to be present in class to take the quiz for the extra credit.

**Caveats:**

*The instructor reserves the right to make changes to the syllabus and will notify students of those changes in class and/or by email.*

***Tentative Lab Schedule***

<b>Course Week*</b>	<b>Lab Exercise</b>	<b>Activities</b>	<b>Quiz</b>
08/18/15	Lab Intro/#1 Scientific Method	1, 2, 3, 4, 5, 6	
08/25/15	#7 Organic Molecules	1, 2	
09/1/15	#2 Microscopy	1, 3, 4, 5, 6	Quiz 1
09/8/15	#3 Cell Biology	1, 3, 4	
09/15/15	#4 Diffusion and Osmosis	1, 2, 3, 4	
09/22/15	#6 Photosynthesis	1, 3	Quiz 2
9/29/15	#8 Enzymes	1, 3	
<b>10/6/15</b>	<b>Midterm Practical</b>		
10/13/15	#9 Molecular Genetics	1, 2, 3, 4, 5	Quiz 3
10/20/15	#10 Mitosis	1, 2, 3,	
10/27/15	#11 Meiosis and Genetics	1, 2, 3, 4, 5, 6, 7	Quiz 4
11/03/15	#12 Human Genetics	1, 2, 3, 5	
11/10/15	#21 Ecosystem	1,3	
11/17/15	#22 Population Ecology	1	Quiz 5
11/24/15	<i>Thanksgiving Holiday</i>		
<b>12/1/15</b>	<b>Final Practical</b>		