

Welcome to the Freshmen Biology Laboratory Program! We hope that the labs will stimulate your interest in biology, complement what you learn in lecture and help prepare you for your upper level classes and your profession. The goal of the biology labs is to give students opportunities for hands on learning of biology and biological principles. Our emphasis is that students will learn both content and process. Some of the material will reinforce what is covered in lecture; some of the material in lecture will reinforce what is learned in the lab.

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**Learning outcomes:** After completing this class, students should be able to demonstrate appropriate use of the scientific method, know the elements of scientific writing and be able to use a compound and dissecting scope correctly. In addition, a student should demonstrate understanding (as measured by correctly answering questions on exams) of topics including diffusion, cells, photosynthesis, DNA structure and replication, Mendelian Genetics and population genetics. A student should also demonstrate understanding of the importance of scientific ethics and integrity to the scientific process.

The BISC 160 class is a co-requisite of this class.

**Required book and clicker:** Laboratory Manuals and Materials: Biological Sciences Laboratory I. 2014, by Gail Stratton and Nicole Lewis; ISBN 978-0-7380-6942-5. You are also required to purchase online access to the lab's portal (should be included in the manual price). Clickers are required for BISC 161.

**Attendance:** Attendance is required at ALL lab meetings. Make-up labs will ONLY be granted for excused absences. These include serious illness, family emergency or approved University functions. Make-up labs can ONLY be arranged by getting permission from the TA teaching the lab you would like to attend and Dr. Stratton or Mrs. Lewis.

**From the Office of Student Disability Services:** It is University policy to provide, on a flexible and individual basis, reasonable accommodations to students who have disabilities that may affect their ability to participate in course activities or meet course requirements. Students with disabilities, which have been verified through the Office of Student Disability Services (915-7128), are encouraged to contact their instructors to discuss their individual needs for accommodations.

**Black Board** will be used regularly. Students should check their blackboard section regularly for announcements and grades.

**Plagiarism and Academic Honesty:** The University is conducted on a basis of common honesty. Dishonesty, cheating, or plagiarism, or knowingly furnishing false information to the University are regarded as particularly serious offenses. Disruptive behavior in an academic situation or purposely harming academic facilities also are grounds for academic discipline. This includes a zero on any work suspected of the above, and reporting to the University, an action which creates a permanent record. Please see the M BOOK for further information.

**Cell Phone/Electronics Policy:** Use of cell phones, including texting, is prohibited during class. Turn them off (not silent, not vibrate – **OFF!**). If you are using your cell phone, it will be removed from you for the duration of the lab. All personal belongings **MUST** be in the cubbies on the wall as you enter the lab.

**Grading:** Grading for BISC 161 will be based on these things: reading assessments, In class Hand-ins, In Class Quizzes, Homework, Discussion Activities and a comprehensive Final Exam.

The Prelab **Reading Assessment** is to encourage students to read the lab book well before lab. Typically these will be due the weekend before the lab is taught. There is more information below on the reading assessment.

In most cases, **the Hand-ins** will be completed in class and will be due at the end of the lab.

**Homework** is assigned in class and is due at the beginning of the next lab.

**Quizzes** will cover previous (70%) and upcoming (30%) labs. You will be using the clickers for all quizzes, so bring your clickers EVERYDAY!

The **Final Exam** is comprehensive.

Each of the reading assessment is worth 5 points and will cover the upcoming lab. See the schedule below. For each assessment there will be 5 multiple choice questions and you will have 10 minutes to complete the quiz. These will open at noon on Fridays and run until 11:59 pm Sunday. These assessments will be located on the lab website: <http://courses.bfwpub.com/BISC161.php>. You should have an online access code in the front of your lab manual. Please create the account with your .go.olemiss.edu email account and make sure that your login information matches the login information that you use for the lecture (BISC 160) bioportal. If you have ANY technical problems with these quizzes, PLEASE contact **their** help line: **1-800-936-6899**.

**How the labs will typically work:** Each lab meetings is for 2 hours and 50 min. Typically, 2 hours will be spent doing the laboratory work and one hour will be spent on the discussion portion of the class. The discussion portion will be during the first or the 3<sup>rd</sup> hour of lab. This hour will be used for linking lab and lecture together. In the discussion portion there will be hand-ins and quizzes as well as use of clickers associated with the topics (see schedule below).

**NOTE:** It is your responsibility to check your grades on Blackboard. If you find an error, you must address it in a timely manner. Typically, grades will be posted weekly, so you should check Blackboard weekly.

The following percent scale will be used in determining your grade. There are no drop grades. This class will not use "+/-" grades.

### Grading Scale

Pre-lab Reading Assessment	60 points		
Quizzes (11 quizzes at 10 pts each)	110 points	450-500 points	= A
Homework	30 points	400-449 points	= B
Hand-Ins	120 points	350-399 points	= C
Discussion	80 points	300-349 points	= D
Final exam	100 points	< 300 points	= F
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Total	500 points		

Nicole Lewis, Bisc 160/162 Resource Center

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TA: \_\_\_\_\_

Contact: \_\_\_\_\_

**Reading Assessment - Dates and labs covered**

1	Friday Aug. 29 (noon) - Sunday Aug. 31 (11:59pm)	Lab 1 & 2
2	Friday Sept. 5 (noon)- Sunday Sept. 7 (11:59pm)	Lab 3
3	Friday Sept. 12 (noon)- Sunday Sept. 14 (11:59pm)	Lab 4
4	Friday Sept. 19 (noon)- Sunday Sept. 21 (11:59pm)	Lab 5
5	Friday Sept. 26 (noon)- Sunday Sept. 28 (11:59pm)	Lab 6
6	Friday Oct. 3 (noon)- Sunday Oct. 5 (11:59pm)	Lab 7
7	Friday Oct. 10 (noon)- Sunday Oct. 12 (11:59pm)	Lab 8
8	Friday Oct. 17 (noon)- Sunday Oct. 19 (11:59pm)	Lab 9
9	Friday Oct. 24 (noon)- Sunday Oct. 26 (11:59pm)	Lab 10
10	Friday Oct. 31 (noon)- Sunday Nov. 2 (11:59pm)	Lab 11
11	Friday Nov. 7 (noon)- Sunday Nov. 9 (11:59pm)	Lab 12
12	Friday Nov. 14 (noon)- Sunday Nov. 16 (11:59pm)	Lab 13

**161 SCHEDULE, FALL 2014**

Date	Lab topic	Discussion topic	Reading Assignments and Grading			
Aug. 25-28	Lab 1 Modeling, Hypothesis Testing & Measurement	Scientific Method	p. 1-28		HI1	HW1
Sept. 1-4	Molecules	Molecules				
Sept. 8-11	Lab 3 Microscopes	Cells	p. 29-54	Quiz 1	HI3	HW2
Sept. 15-18	Lab 4 Diffusion	Diffusion	p. 55-72	Quiz 2	HI4	
Sept. 22-25	Lab 5 Enzymes	Energy	p. 73-88	Quiz 3	HI5	
Sept. 29-Oct. 2	Lab 6 Cellular Respiration	Cellular Respiration	p. 89-98	Quiz 4	HI6	
Oct. 6-9	Lab 7 Photosynthesis	Photosynthesis	p. 99-116	Quiz 5	HI7	
Oct. 13-16	Lab 8 DNA Modeling, DNA Extraction & Electrophoresis Simulation	DNA Synthesis	p. 117-134	Quiz 6	HI8	
Oct. 20-23	Lab 9 Molecular Genetics & Mitosis	Mitosis	p. 135-144	Quiz 7	HI9	
Oct. 27-30	Lab 10 Modeling Protein Synthesis; Mitosis Review & Meiosis	Transcription & Translation	p. 145-156	Quiz 8	HI10	
Nov. 3-6	Lab 11 Human Genetics & Mendelian Genetics	Meiosis	p. 157-166	Quiz 9	HI11	HW3
Nov. 10-13	Lab 12 Corn Genetics	Genetic concept map	p. 167-174	Quiz 10	HI12	
Nov. 17-20	Lab 13 Population Genetics	H-W Equilibrium	p. 175-190	Quiz 11	HI13	
Nov. 24-27	Thanksgiving Break - NO LABS THIS WEEK!					
Dec. 1-4	Lab Final Exam					

**Note: HI = Hand-in, HW = Homework**

**Other Dates to Note:**

**Oct. 6** Deadline for course withdrawal

**Oct. 13** Midterm grades are due