

Course Section and Instructor

TA: _____ Email: _____ Office location: _____

Lab Manual: Biological Sciences Laboratory I. 2018, by Nicole Lewis and Gail Stratton; ISBN 978-1-5339-0713-4. You are also required to purchase online access to the lab's portal, which is included in the manual price, log in information is found on the inside back cover of the manual.

Course Resources

Blackboard: This is the first place you should look for any information regarding the course during the semester, including syllabus, your grades, announcements, etc.

Hayden McNeil Lab Portal: This is the place where you will find your weekly reading assessments and online lab manual.

Mrs. Lewis is the Lab Coordinator. Any questions about lab or issues with the laboratory, please contact her at bisc161@olemiss.edu

Course Requirements

Co-requisite is BISC 160: minimum ACT mathematics score of 25 (SAT 590) or completion of MATH 123, MATH 125 or CHEM 101 with a grade of A or B.

NOTE: The BISC 160 class is a co-requisite of this class. You cannot drop the lab without also being dropped from the lecture.

Biology Majors and Minors: The Department of Biology requires a final grade of C or better in all Biology Courses used to satisfy requirements for your degree.

Course Goals

Learning Objectives: BISC 161 is the first semester of a two semester series *for science majors and those intending to enter the fields of medicine and pharmacy*. After completing this course, students should know basic concepts in Biological Sciences at the molecular, cellular and population levels, including energy transfer and use, genetics and evolution and the structure and function of cells. This is a foundation class that prepares students with the skills necessary for advanced courses in the biological sciences and related subjects. After BISC 161, you should be able to:

1. Explain and implement the scientific method.
2. Describe the structure and function of biological molecules.
3. Describe the elements of technical writing.
4. Explain the pathways that cells use to harvest chemical energy.
5. Explain how living things use genes to generate proteins and transmit information across generations.
6. Describe the process of biological evolution.

How the labs will typically work: Each lab meetings is 2 hours and 50 minutes. Typically, two 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 third hour of lab.

Course Polices

In Class Behavior: All students must uphold the University Creed. We expect that your behavior will promote an open and diverse atmosphere that encourages learning. You will be required to work in groups every week and you are expected to respect all other students in the class. Groups will be assigned by the Teaching Assistant in the lab. Tobacco products (e.g., dip, chew) are **NOT** allowed in the laboratory. Please dispose of any trash you bring into the laboratory properly. Be sure that you leave the laboratory clean and set up for the next lab section.

Attendance: Attendance is required at ALL lab meetings and will be taken every lab meeting using the ID scanners. **Per University policy, if you do not attend lab during the first two weeks of class, you will be dropped from our class and the co-requisite BISC 160.** Only students with a valid excuse (serious illness, family emergency or approved University function) will be **considered** for a possible make-up. Make-up labs will **ONLY** be granted for excused absences **with dated documentation** (doctor's notes, University paperwork, funeral programs, etc.) If you miss a lab/assignment for any reason, you must contact Mrs. Lewis at bisc161@olemiss.edu.

Course Polices continued

When requesting permission, you **MUST** send an email to bisc161@olemiss.edu with the following 4 items:

1. Your name
2. your TA's name and lab section
- 3 a copy of your valid dated excuse (scan, photo, etc.)
4. your specific request

Here is an example of how this would look:

Dear Mrs. Lewis,

My name is John Jackson and I am in Kartick Shirur's section # 4 of BISC 161. I had to miss lab on Monday (Sept 30) because I have the flu. Attached is an image of the excuse I got from the health center. May I please make up the exam either Weds or Thurs this week? Thank you!

Sincerely, John Jackson, Sect 4

Contact information for Mrs. Lewis, Lecturer and Lab Coordinator:

Office: 309 Shoemaker hall

Email: bisc161@olemiss.edu

Phone: 915-1648

Required Course Material

Cell Phone/Electronics Policy: Use of cell phones, including texting, is prohibited during lab. Please turn the ringer to silent. You may NOT use your phone to photograph slides during lab lecture, they will be provided for you after each lab. You may use laptops etc. for note taking, but it is expected that you will NOT be surfing web, using Facebook, etc. If you choose to make an audio recording of the lab lecture, you must receive approval from your TA first. Please consider that your computer or cell phone use in the laboratory is a distraction to you and your classmates. Also, the labs are quite messy some weeks and you risk damage to your device.

Disability Access and Inclusion: The University of Mississippi is committed to the creation of inclusive learning environments for all students. If there are aspects of the instruction or design of this course that result in barriers to your full inclusion and participation, or to accurate assessment of your achievement, please contact the course instructor as soon as possible. Barriers may include, but are not necessarily limited to, timed exams and in-class assignments, difficulty with the acquisition of lecture content, inaccessible web content, and the use of non-captioned or non-transcribed video and audio files. If you are approved through SDS, you must log in to your Rebel Access portal at <https://sds.olemiss.edu> to request approved accommodations. If you are NOT approved through SDS, you must contact Student Disability Services at **662-915-7128** so the office can: 1. determine your eligibility for accommodations, 2. disseminate to your instructors a Faculty Notification Letter, 3. facilitate the removal of barriers, and 4. ensure you have equal access to the same opportunities for success that are available to all students.

BlackBoard will be used regularly. Students should check their blackboard section weekly for announcements and grades. If you think there is an error with a grade you must contact your TA within a **week** of the grade being posted.

Academic Misconduct: In this course, academic misconduct applies to exams, assignments and lab quizzes. Examples of academic misconduct can include, plagiarism (See Mbook), copying someone else's work or allowing someone else to copy your work, memorizing exam questions and providing them to students in another section, using your cell phone during exams or having someone else answer in class assignment questions for you. The University of Mississippi definition of Academic Misconduct can be found on pp. 4-6 in the Mbook (<http://dos.orgsync.com/home>). I do not tolerate any means of Academic Misconduct and will follow the University policy on generating sanctions in any event of misconduct that I identify. If you are caught cheating on an assignment, you will receive a **zero** on that assignment and will be reported to the University.

Course Withdrawal Deadline (October 7, 2019): This is the last day to withdraw from the course. University policy states: "After the course withdrawal deadline, a student may drop a course only in cases of extreme and unavoidable emergency as determined by the student's academic dean. Unacceptable reasons for late withdrawal include dissatisfaction over an expected grade or a change in a student's degree program or major. In no case may a class be dropped after the last regular class day semester, session, or term. Courses dropped after the course withdrawal deadline will still appear on the student's official transcript, and the W mark will be recorded if the student is *passing* the course at the time of withdrawal; the F grade will be recorded if the student is *failing*. The BISC 160 class is a co-requisite of this class. You cannot drop the lab without also being dropped from the lecture.

Course Grades

Grading: There are a total of 386 points available for this class that can be obtained from assignments. There are NO bonus points available in this course and the course is NOT graded on a curve. Grading for BISC 161 will be based on these things: online prelab reading assessments, In class Hand-ins, In Class Quizzes, Homework and a comprehensive Final Exam.

The following percent scale will be used in determining your grade. This class will not use "+/-" grades.

Pre-lab Reading Assessment (4 points each)	36 points	89.5-100%	= A
Quizzes (10 points each)	110 points	79.5-89.4%	= B
Homework (10 points each)	30 points	69.5-79.4%	= C
Hand-Ins (10 points each)	110 points	59.5-69.4%	= D
Final exam	100 points	< 59.4%	= F
Total	386 points		

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.

Prelab Reading Assessments (RA): The online 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. Each of the online prelab reading assessments is worth 4 points and will cover the upcoming lab. See the schedule below for dates and topics covered. For each assessment there will be 4 multiple choice questions and you will have 10 minutes to complete the RA. These will open at noon on Fridays and run until 11:59 pm Sunday. These assessments will be located on the lab portal. To access the portal, log into your blackboard account and click on BISC161 Lab Portal in the left hand panel. You will create an account on the website using the code in your lab manual. You should have an online access code in the back of your lab manual. Please create the account with your [@go.olemiss.edu](mailto:go.olemiss.edu) email account and enter your student ID. RAs **will not** be reopened for any reason and you will have ONE WEEK to contest a RA grade from the date that it closes. We will drop 2 RA grades at the end of the semester. If you have ANY technical problems with these RAs, PLEASE contact **their** help line: support@hmpublishing.com.

Quizzes: will cover previous (70%) and upcoming (30%) labs. These are mostly multiple choice and fill in the blank questions.

Homework: is assigned in class and is due at the beginning of the next lab. See schedule below for days HW is assigned.

Hand-ins: These are the weekly activities you will complete in lab.

Final Exam: is comprehensive. The final covers all the labs and is completed during lab time the week of Dec. 2nd. There will be multiple choice, true/false and fill in the blank questions.

Recitation: separate activities meant to reinforce the lecture material and give you a more in depth understanding of how you are expected to know the material presented in lectures. Each activity is about one hour long followed by a short quiz. You will need to bring your lecture textbook to lab every week! The list of topics and point values are listed in the schedule below. The discussions will occur in the lab meeting times BUT are a part of your **lecture grade**. You can earn up to 26 points toward your lecture grade (~ 9.5% of your total lecture grade).

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Reading Assessment - Dates and labs covered

1	Monday Aug. 26 (noon) - Sunday Sept. 22 (11:59pm)	Lab 1
2	Friday Sept. 13 (noon) - Sunday Sept. 22 (11:59pm)	Lab 4
3	Friday Sept. 20 (noon)- Sunday Sept. 22 (11:59pm)	Lab 3
4	Friday Sept. 27 (noon)- Sunday Sept. 29 (11:59pm)	Lab 5
5	Friday Oct. 4 (noon)- Sunday Oct. 6 (11:59pm)	Lab 6
6	Friday Oct. 11 (noon)- Sunday Oct. 13 (11:59pm)	Lab 7
7	Friday Oct. 18 (noon)- Sunday Oct. 20 (11:59pm)	Lab 8
8	Friday Oct. 25 (noon)- Sunday Oct. 27 (11:59pm)	Lab 9
9	Friday Nov. 1 (noon)- Sunday Nov. 3 (11:59pm)	Lab 10
10	Friday Nov. 8 (noon)- Sunday Nov. 10 (11:59pm)	Lab 11
11	Friday Nov. 15 (noon)- Sunday Nov. 17 (11:59pm)	Lab 12

161 SCHEDULE

Date	Lab topic	Recitation topic	Reading Assignments and Grading			
Aug. 26-30	LABS BEGIN!	Launchpad registration				
Sept. 2-6	NO LABS – Labor day holiday	Molecules				
Sept. 9-13	Lab 1 Modeling, hypothesis testing	Energy and Enzymes	p. 1-18	Quiz 1	HI1	HW1
Sept. 16-20	Lab 4 Enzymes	Cells	p. 63-78	Quiz 2	HI4	
Sept. 23-27	Lab 3 Osmosis and Diffusion	Diffusion	p. 47-62	Quiz 3	HI3	
Sept. 30- Oct. 4	Lab 5 Cellular Respiration	Cellular Respiration	p. 79-88	Quiz 4	HI5	
Oct. 7-11	Lab 6 Photosynthesis	Photosynthesis	p. 89-106	Quiz 5	HI6	HW2
Oct. 14-18	Lab 7 DNA Modeling, DNA Extraction & Electrophoresis Simulation	DNA Synthesis	p. 107-124	Quiz 6	HI7	
Oct. 21-25	Lab 8 Molecular Genetics & Mitosis	Mitosis	p. 125-134	Quiz 7	HI8	
Oct. 28- Nov. 1	Lab 9 Modeling Protein Synthesis; Mitosis Review & Meiosis	Transcription and Translation	p. 135-144	Quiz 8	HI9	
Nov. 4-8	Lab 10 Human Genetics & Mendelian Genetics	Meiosis	p. 145-158	Quiz 9	HI10	HW3
Nov. 11-15	Lab 11 Corn Genetics	Concept Map	p. 159-165	Quiz 10	HI11	
Nov. 18-22	Lab 12 Population Genetics	Antibiotic Resistance	p. 167-182	Quiz 11	HI12	
Nov. 25-29	Thanksgiving Break - NO LABS THIS WEEK!					
Dec. 2-6	Lab Final Exam					

Note: HI =Hand-in; HW = Homework

Other Dates to Note:

Sept. 16 Drop for non-attendance
Oct. 7 Deadline for course withdrawal
Oct. 7 Midterm grades are due