

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. BISC 163 is a co-requisite for BISC 162. One must pass Bisc 160/161 with at least a "C" to take the Bisc 162/163 class.

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**Required book and Materials:** **Stratton, 2013. Laboratory Manual, BISC 163 Biological Sciences.** Hayden-McNeil Publishing. ISBN: 978-0-7380-5712-5 You are also required to purchase online access to the lab's portal (should be included in the manual price). Dissecting kit, available at the bookstore (about \$10.00), gloves for dissection (about \$0.30 each; you should purchase at least 10 pairs) and goggles.

**Attendance:** Attendance is required at ALL lab meetings. Make-up labs will ONLY be granted for excused absences **with documentation**. 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.

**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.

**Learning outcomes:** Upon completing this laboratory students will:

A. Vertebrate dissection

1. perform dissection studies of the fetal pig, applying knowledge gained in lecture, laboratory, and text
2. learn macro and micro anatomy of the pig and be able to compare and contrast observations at these levels using anatomical terminology correctly and understand correlations between form and function

B. Diversity

1. learn the large categories of diversity and be able to understand and explain the methods of categorization
2. for each group, understand the mechanisms of getting nutrients & oxygen, getting rid of wastes & reproducing.

C. Microscope

1. be able to effectively use a compound and dissecting microscope

D. Library Research and Presentations

1. while working in a group, students will research a topic using library resources & present & effective verbal presentation on their findings.

**BIOLOGICAL SCIENCE 163  
LABORATORY SCHEDULE, SPRING 2014**

<u>DATE</u>	<u>LAB</u>	<u>TOPIC</u>	
Jan 22-24		No labs this week; TA training	
Jan. 27-30	Lab 7	Overview of Diversity: Bacteria, Protista	
Feb. 3-6	Lab 8	Plant Diversity and Anatomy	Quiz 1
Feb 10-13	Lab 9	Fungi and Intro to Animals	Quiz 2
Feb. 17-20	Lab 10	Animals II <b>Oral Presentation Assignment</b>	Quiz 3
Feb 24-27		<b>Lab Exam 1; Pages From Lab Notebooks Due</b>	
March 3-6	Lab 1	Early Animal Development + Tissues <b>Library Instruction</b>	
March 10-14		Spring Break	
March 17-20	Lab 6	Nervous and Endocrine Systems Bring dissecting kit, gloves and eye protection <b>Article Summaries are due</b>	Quiz 4
March 24-27	Lab 2	Skin, muscle and bones	Quiz 5
March 31-April 3		<b>Lab Exam 2; Pages From Lab Notebooks Due</b>	
April 7-10	Lab 3	External, Digestive & Respiratory systems Bring dissecting kit, gloves and eye protection <b>Oral Presentations</b>	
April 14-17	Lab 4	Circulatory System; ECG Pulse and Oxygen levels Bring dissecting kit, gloves and eye protection <b>Oral Presentations</b>	Quiz 6
April 21-24	Lab 5	Reproductive and Excretory Systems Bring dissecting kit, gloves and eye protection <b>Oral Presentations</b>	Quiz 7
April 28-May 1		<b>Lab Exam 3; Pages From Lab Notebooks Due</b>	

**Other dates to note:**

<b>March 4</b>	Deadline for course withdrawals
<b>March 10</b>	Progress reports are due

**Grading:** Grading for BISC 163 will be based on Quizzes, lab notebooks, a group presentation and 3 practical exams. The following percent scale will be used in determining your grade. There are no drop grades. This class will not use "+/-" grades. Quizzes will cover previous (70%) and upcoming (30%) labs. There will be weekly, online, pre-lab quizzes (a total of 10) that you can complete for up to 5% added to your final average. 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.

3 Exams, 50 points each	150 points	Grading Scale	
Quizzes (7 quizzes at 10 pts each)	70 points	315-350 points	= A
Presentation	70 points	280-314 points	= B
Notebook and participation	60 points	245-279 points	= C
		210-244 points	= D
		<210 points	= F
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Total	350 points		

There are weekly online bonus point quizzes where you can earn up to 5% on your final grade. Each quiz will cover the lab that you are going to be doing the following week (see the schedule below for the quiz topics). There will be 5 multiple choice questions and you will have 10 minutes to complete the quiz. You will be able to take the quiz as many times as you like and we will keep your HIGHEST score. The quizzes will open at noon on Fridays and run until 11:59pm Sunday. The quizzes will be located on the lab website:

<http://courses.bfwpub.com/BISC163.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 bioportal. If you have ANY technical problems with these quizzes, PLEASE contact their help line: **1-800-936-6899**. The schedule for these quizzes are as follows:

	Lab #	Date
Bonus Quiz 1	7	Jan 24-26
Bonus Quiz 2	8	Jan 31-Feb 2
Bonus Quiz 3	9	Feb 7-9
Bonus Quiz 4	10	Feb 14-16
Bonus Quiz 5	1	Feb 28-Mar 2
Bonus Quiz 6	2	Mar 7-16
Bonus Quiz 7	3	Mar 21-23
Bonus Quiz 8	4	Apr 4-6
Bonus Quiz 9	5	Apr 11-14
Bonus Quiz 10	6	Apr 18-20