

# Human Anatomy & Physiology

## BIOL 2652 D

### Fall 2013

### Syllabus

**Instructor:** Dr. David L. Bechler, Office: Bailey Science Complex Room 2030,  
Office: Phone: 293-6063

Course, Section. Component	Day(s)	Times	Room
BIOL 2652 Lecture	Monday, Wednesday, Friday	10-10:50 am	BC 1202
BIOL 2652 E Laboratory	Friday	8-9:50 am	BC 1203

### Course Objectives

**To provide students with—**

1. Basic knowledge of anatomy and physiology involving the human body.
2. The fundamentals needed for entry into careers that use human anatomy and physiology as a foundation.
3. A basic knowledge of the human body that will allow an individual to make wise and educated decisions on their health and the health of others.

The above course objectives meet Biology Department Educational Outcomes 3 (Understanding of the cellular basis of life) and 4 (Structure and function of DNA and role in heredity).

### Associated Study Aids and Review Material for this Class

Dr. James Loughry and others have developed study aids on web pages for this class. To view the study aids, go to <http://www.valdosta.edu/~jloughry/BIOL2652/BIOL2652.html> and then link to the material you specifically want to study. Note that these study aids and review materials are for lab and lecture. In addition, modified PowerPoint presentations will be set up on BlazeView after the last lecture in a chapter has been completed.

### Text Books—Chapters and Pages Covered

**Classroom Textbook**—Principles of Anatomy and Physiology, 13th edition, by G. J. Tortora & B. Derrickson, John Wiley & Sons, 2011.

**Laboratory Textbook**—Smith, ME, and WmJ Loughry, 2002. Laboratory manual for Human Anatomy and Physiology, 3<sup>rd</sup> Ed. Pearson, Custom publishing.

**Special note** on Laboratory Manuel—the manual is now on line and can be accessed via Dr. James Loughry's web page at <http://ww2.valdosta.edu/~jloughry/>. See note on Associated Study Aids... above.

The topics list below are designed to coincide as closely as possible with your lab schedule; however, exact coincidence is not completely possible. Primary emphasis on tests will be placed on the notes given in class and only a few questions on the tests will come directly from the book. It is important that you read the material in the text associated with the class notes to enhance

your understanding. Note also that class notes will not always follow the same format or sequence as the text.

<u>Chapter</u>	<u>Topic and Pages</u>
18	Endocrine System (680-716)
19	Blood (728-756)
20	Heart (757-801)
21	Blood Vessels, Hemodynamics (802-829)
22	Lymphatic System, Immunity (875-917)
23	Respiratory System (918-966)
24	Digestive System (967-1023)
25	Metabolism, Nutrition (1024-1064)
26	Urinary System (1065-1109)
27	Fluids, Electrolytes, Acids and Bases (1110-1128)
28	Reproductive Systems (1129-1179)
29	Pregnancy, Fetal Development (1180-1222)

### **Testing**

Each of the first three regular tests will consist of 50-60 questions. The final will be comprehensive and will consist of 100 questions, ~50 over old material and ~50 over untested material. All regularly scheduled tests will contain multiple choice questions. Each of the first three tests will be worth 100 points and the final worth 200 points. This makes the final worth two tests. The day the test is returned, an answer key will be placed in BLAZEVIEW for your perusal. If you find any errors, circle only the number of the question on the scantron sheet and give it to me after class. You will need to bring a number two pencil to the test as you will use a computer-graded scantron form.

<u>Tests</u>	<u>Chapters Covered</u>	<u>Date</u>
1	18, 19, 20,	to be announced
2	21, 22, 23,	to be announced
3	24, 25, 26	to be announced
Final	27, 28, 29 + 18-26	Friday, 9 Dec 2013, 10:15am-12:15pm

At least one week prior to lecture tests 1, 2, and 3 the date of the test will be announced.

**Special Note—some questions will have more than one correct answer and you must mark all the correct answers on your scantron sheet to get credit for the question.**

### **Computing Grades**

To determine your grade for more than one test simply average your grades. The lecture will be equal to 75% of the course grade and the laboratory to 25%. To determine your grade for the course, calculate your average for the lecture portion and for the laboratory portion of the

course. Then, multiply the lecture average by 0.75 (equals 75%) and the laboratory average by 0.25 (equals 25%). Finally, add the two resulting values together. Remember the final is worth two tests so the final score must be used twice.

Lecture Grade Example:  $(\text{test 1} + \text{test 2} + \text{test 3} + (\text{final} \times 2))/5$

Course Grade Example:  $(\text{lecture average} \times 0.75) + (\text{lab average} \times 0.25) = \text{course grade}$

**Missed Tests-**If you miss a lecture test you must come and see me at your first opportunity to set up a time to make-up the test. Make-up tests will be essay and will consist of a minimum of four questions. If given out, curves are not applied to make up tests.

### Laboratory Schedule and Notes

Week of	Topic:	
August	15	NO LAB
	22	Blood Physiology
	29	Heart Physiology
September	5	Heart Anatomy
	12	Fetal Pig Blood Vessels
	19	Fetal Pig Blood Vessels (cont.)
	26	Fetal Pig Blood Vessels (cont.); Review for Lab Exam
October	3	Lab Exam I
	10	Fetal Pig Digestive System
	17	Respiratory Physiology
	24	Fetal Pig Respiratory System
	31	Lab Exam II
November	7	Fetal Pig Urinary & Reproductive Systems
	14	Review for Cumulative Lab Exam
	21	Lab Exam III
	28	Thanksgiving: NO LAB

**Laboratory Exams:** Lab exams will be practicals in which you must move about the room and answer specific questions about the material and specimens. You will be allowed to move about the room as you wish, but only one person at a time at a station. There will be two questions per station.

When studying for the lab particles, remember that there are study aids that can be found on Dr. Loughry's web page at <http://www.valdosta.edu/~jloughry/BIOL2652/BIOL2652.html>.

You will be looking at many dissected pigs and animal parts during an exam, so it will be to your advantage to look at others' specimens while you are in lab. By doing so, you will become used to the high level of variance that exists between specimens and dissection styles. This should help you better answer the questions on dissected specimens. You will need to bring rubber or latex gloves for dissection as well as a dissection kit. Other materials, pigs and hearts are provided.

**Special Note**→the laboratory final is comprehensive and will with about 50% of the questions coming from material you will have studied for the first two laboratory practicals.

## **Academic Dishonesty and Plagiarism**

**Academic dishonesty and plagiarism**—during tests, all cell phones must be turned off and other materials such as notes and the textbook must be placed under the seat of your desk. For additional information see web site:

<http://www.valdosta.edu/academic/AcademicHonestyPoliciesandProcedures.shtml>

If an individual is engaging in academic dishonesty, they will be given a grade of “F” for the course and a **formal complaint** filed with the office of the dean of students.

## **Class Attendance, Behavior and General Notes**

When I am lecturing, I expect students to behave themselves and maintain silence; however, your questions are encouraged. Students who repeatedly disrupt the class will be removed from the class and if necessary dropped from the course. You are now preparing for your future, and successful completion of this course may determine your future job prospects. Therefore, good behavior in class is expected, for you are now an adult and you should behave as such.

While class attendance is not formally taken each period, I will note when individuals are absent, and if absences are excessive I reserve the right to administratively drop a student from the course. It is your responsibility to attend class regularly, arrive on time and get the notes and assignments as presented in class. Cell phone use in class is not permitted, and they must be turned off.

### **Important Dates**

- 2 September 2013—Labor Day Holliday
- 3 October 2013—Midterm, last day to drop a course, No one will be dropped after the last drop date unless there are extenuating circumstances beyond your control.
- 23-25 November 2013—Thanks Giving Holliday

**Disabled Students:** Students requiring classroom accommodations or modifications because of documented disabilities should discuss their needs with me at the beginning of the semester. Disabled students not registered with the Special Services Program should contact the program officer in Nevins Hall (phone: 245-2498).

**Buckly Amendment or Privacy Act:** It is illegal to release to others personal information about an individual. Therefore, grades, averages, and other personal information about an individual will not be released to anyone but that individual, posted, or given over the phone or by e-mail.

Generally, I will be available 30 minutes after class for consultation. Other times can be arranged by appointment or you can take your chance and just drop by to see if I am in the office. I have an active field based research program and as such am often in the field conducting research. Please do not call me at home. Once I leave the office and go home, my life belongs to my family and me.

**Food and Drinks:** Food and drinks are not allowed in the classrooms and teaching laboratories in this building. This is a safety precaution.