

**Fayetteville State University**  
**College of Arts and Sciences: Dept. of Biological Sciences**  
**Fall 2011 course syllabus: ZOOL 210: Human Anatomy & Physiology 1**

**I. Locator information**

3.0 semester hrs of credit

Class times:

Section 01:	T 9:00 - 10:50 a.m.	Room: LSA 247
Lab:	R 9:00 - 10:50 a.m.	Room: LSA 245
Section 02:	W 1:00 – 2:50	Room: LSA 247
Lab:	F 1:00 – 2:50	Room: LSA 245

Instructor: Phil Senter, Ph.D.

Office location: LS 126 Office phone: 672-1304 Email: psenter@uncfsu.edu

Office hrs: M 11:00-2:00, T 11:00-12:00; W 11:00-1:00; R 11:00-12:00; F 12:00-1:00, and by appointment

**FSU Policy on Electronic Mail:** Fayetteville State University provides to each student, free of charge, an e-mail account ([username@uncfsu.edu](mailto:username@uncfsu.edu)) that is easily accessible via the Internet. The university has established e-mail as the primary mode of correspondence between university officials and enrolled students. Inquiries and requests from students pertaining to academic records, grades, bills, financial aid, and other matters of a confidential nature must be submitted via FSU email. Inquiries or requests from personal email accounts are not assured a response. The university maintains open-use computer laboratories throughout the campus that can be used to access electronic mail.

Rules and regulations governing the use of FSU email may be found at  
<http://www.uncfsu.edu/PDFs/EmailPolicyFinal.pdf>

**II. Course description:**

A systematic study of the structures and functions of the musculoskeletal, neural, and integumentary systems of the human body, with two (2) hours of laboratory studies on the structures and functions of the human body's composite systems. Prerequisite: BIOL 110/130 or BIOL 150

**III. Disabled Student Services:** In accordance with Section 504 of the 1973 Rehabilitation Act and the Americans with Disabilities Act (ACA) of 1990, if you have a disability or think you have a disability to please contact the Center for Personal Development in the Spaulding Building, Room 155 (1st Floor); 910-672-1203.

**IV. Textbooks:**

**Main text:**

David Shier, Jackie Butler, and Ricki Lewis. Hole's Human Anatomy and Physiology (12th edition) WCB/McGraw-Hill Companies, Inc., 2006.

**Lab manual:**

David Shier, Jackie Butler, and Ricki Lewis. Hole's Human Anatomy and Physiology Laboratory Manual (12th edition\*) WCB/McGraw-Hill Companies, Inc., 2006.

\*Note: Starting in Spring of 2011, the 11th edition will no longer be used.

**V. Course objectives and student learning outcomes:**

Upon completion of this course, students will be able to:

- A. Demonstrate knowledge of the structure and function of each organ system, organ system division, organ, tissue, cell type, and biological molecule covered in this course.
- B. Demonstrate knowledge of correct use of the anatomical and physiological terms covered in this course.
- C. Correctly identify the body parts covered in this course.

Mastery of the three student learning outcomes listed above will be measured by student performance on exams.

Disclaimer: Policies outlined below are subject to change if the instructor deems necessary.

## VI. Evaluation criteria and grading scale

Four lecture exams (including the midterm and final), 80 pts apiece.	Total: 320 pts.
Three lab exams, 50 pts apiece.	Total: 150 pts
25 lab exercises, 4 pts apiece*	Total: 100 pts
Obtaining lab materials**	Total: 10 pts
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	Grand total: 580 pts

\* The last day to turn in late lab work is the date of the student's last regularly scheduled lab exam.

\*\*10 points are awarded if the student has obtained either a lab manual or a complete set of photocopies of the needed lab manual pages, by the date of the third regular (non-exam) lab period. 5 pts are awarded if this is accomplished later than that date but by the date of Lecture Exam 2. No points for this are available after Lecture Exam 2.

Grading is on a ten-point scale. For example, a semester grade of A is awarded if the student earns  $\geq 90\%$  of 580 pts, B if the student earns  $\geq 80\%$ , etc.

### New FSU attendance and grading policy

Grades of "WN" are no longer given.

A grade of "FN" (F due to non-attendance) is given to a student who attends zero, one, or two class periods in a semester and does not withdraw but instead remains on the roster. Lab periods are considered class periods.

New type of grade: Interim Grade. An Interim Grade of "X" (no show) or "EA" (excessive absences) may be given early in the semester as a warning to the student. Interim Grades do not influence GPA. They are reminders to the student to decide whether to withdraw or to increase attendance.

### Attendance and Student Behavior Expectations:

The instructor will be respectful of all students and expects all students to accept their responsibility for maintaining a positive classroom environment by abiding by the following rules:

- A. Student/teacher interactions, as well as interactions among peers, must be congenial and respectful.
- B. Students are expected to arrive to class on time when possible, remain in class until dismissed by the instructor, and refrain from preparing to leave class until it is dismissed.
- C. Students are asked to refrain from answering or checking cell phones or pagers during class. It is rude.
- D. The following are forbidden in the classroom: (a) food (exceptions: hard candy, cough drops), (b) carrying on private conversations during class, (c) wearing headphones or other potentially distracting paraphernalia, (d) popping gum during class.
- E. Food and drink are forbidden in the lab (OSHA regulations).
- F. Use only the lab drawers and materials set aside for this class. Do not mess with the other classes' materials unless permission has been granted to do so.
- G. Lab periods are less formal than lecture. After the professor's initial spiel, once the students have begun the lab work, conversation among and between lab groups is encouraged.

**Consequences for Failing to Meet Behavioral Expectations:** The professor will use his own judgment as to whether, in response to such failure, he will merely remind the student to stop engaging in the behavior, ask the student to leave for the rest of the class period, or take other action. In extreme or repeated cases, the instructor may report the student to the Dean of Students for disciplinary action according to the FSU Code of Student Conduct.

### Exam and lab policies:

A. Bring to every lecture exam: (1) a pencil, (2) white-out.

B. Make-up exams:

- (1) A make-up exam is arranged only if the student requests one.
- (2) A make-up exam must be taken within one week after the scheduled exam.
- (3) To discourage habitual absence on exam days, the score of a make-up exam is reduced by 10 points if the student has previously taken at least two make-up exams in the same semester, unless the student provides documentation for a legitimate reason (e.g. medical situation, family emergency, auto trouble, participation in a

school event) for having missed the regularly scheduled exam. Legitimate reasons do not include forgetfulness, oversleeping, or not being ready to take the exam.

C. Prearrangements to take an exam at an alternate time/date are not the same as make-up exams and do not necessarily require extraordinary circumstances or documentation. Please let the prof. know far enough ahead of time if a prearrangement is needed. There is no 10-point reduction for prearrangements.

D. Location: If a prearranged or make-up exam cannot be taken in the professor's office during office hours, it will be taken in the University Testing office (Collins 109). The University Testing office requires that the student make an appointment with at least one day's notice (call 672-1815); appointments cannot be changed.

E. Tardiness: Arrival more than 15 minutes late to an exam results in a reduction of the student's exam score by 10 points, unless the student provides documentation for a legitimate reason (see B3 above) for the lateness.

F. Cheating: The instructor will adhere to University policy concerning cheating.

G. If you leave the room after having started an exam, your exam is over.

H. The last day to turn in late lab exercises is the day *before* the date of the last lab exam for the student's course section (the original date, not the date of a make-up or prearranged exam).

I. Lab exercises involving equipment cannot be made up.

J. Bring both the lab manual and the textbook to every lab period.

K. A waiver of lost lab participation points may occur if the student provides documentation for a legitimate reason (see B3 above) for absence on a lab day.

L. The last day to turn in documentation to regain points lost due to tardiness to an exam or due to absence on a lab or exam day, is the day *before* the original date of the final exam for the student's course section.

## VII. Academic support resources

University College Learning Center: Chick 216C, ph: 910-672-1864. Tutoring, proofreading, etc.

ZOOL 210 study guides: on Blackboard at <http://blackboard.uncfsu.edu>

## VIII. Course outline and assignments (dates subject to change):

Week of	Lecture topic	Lab topic
Aug 18		Introductory terminology Lab manual: Fig. 2.1, 2.5, 2.7a&b Handouts 1 and 2
Aug 22	Ch. 1, 2, 3: Intro, Chemistry, Cells	Integument, Skull Handouts 3 and 4 Lab manual: Fig. 11.1 – 11.3, Fig. 14.1 – 14.3
Aug 29	Ch. 4, 5: Cells, Tissues	<b>Lab exam 1 (1<sup>st</sup> hour)</b> ; 2 <sup>nd</sup> hour: lecture: Ch. 6: Integument
Sep 5	Ch. 6: Integument [ <i>no class Mon</i> ]	Skeletal system; axial skeleton Handouts 5 and 6 Lab manual: Fig. 13.1a&b, Report 13D Lab manual: Fig. 15.1 – 15.3, 15.5, 15.6
Sep 12	<b>Lecture Exam 1</b>	Upper extremity Handout 7; Lab manual: Fig. 16.1 – 16.9
Sep 19	Ch. 7, 8: Skel. tissues, Joints,	Lower extremity Handout 8; Lab manual: Fig. 17.1 – 17.9
Sep 26	Ch. 10: Nervous tissue	Joints Handout 9 Lab manual: Fig. 18.1, Report 18E
Oct 3	Ch. 9: Muscle tissue	Head & neck muscles Handout 10 Lab manual: Fig. 20.1, 20.4
Oct 10	<b>Lecture exam 2</b>	<b>Lab exam 2</b>
Oct 17	<i>Midterm Break</i>	<i>Midterm Break</i>

Oct 24	Ch. 11: Central nervous system	Brain Handout 11 Lab manual: Fig. 28.1 – 28.3, 28.5
Oct 31	Ch. 11: Peripheral nervous system	Eye; ear Handout 12 Lab manual: Fig. 32.1 – 32.3, 34.1 – 34.3
Nov 7	Ch. 12: Chemical senses, equilibrium, hearing	Muscles of upper limb and torso Handout 13 Lab manual: Fig. 21.1 – 21.5, 22.1 – 22.4
Nov 14	<b>Lecture exam 3</b>	[No lab this week]
Nov 21	Ch. 12: Vision	Muscles of lower limb Handout 14; Lab manual: Fig. 23.1 – 23.7 <u>Homework</u> : Muscle origins, insertions, and actions Handout 15
Nov 28	<b>Lab exam 3 (during lecture time)</b>	
	<b>Also this week: Final exams for graduating seniors</b>	
Dec 5	<b>Final exam:</b>	Section 01: Thurs., Dec. 8 at 8:00 a.m. Section 02: Fri., Dec. 9 at 12:00 noon

### IX. Instructional style:

Zoology 210 is a lecture-based course designed to present the basic theories of Anatomy and Physiology. Zool 210 also contains a laboratory component that provides hands-on implementation of the theories and concepts covered in lecture. Visual aids such as transparencies will be utilized to bring clarity to concepts/theories and structural components discussed in lecture. For the laboratory, students will work in teams, one team per lab table. The instructor will provide the specimens to be studied, the list of body parts to be identified, and assistance in finding parts as needed.

### X. Bibliography:

All Zool 210 students are encouraged to use the library and to do supplemental reading in the biological sciences. The following science periodicals and computer software provide a source of current information in a format appropriate for both the major and non-major biology student.

#### Computer Software/ Internet Web Sites:

1. Zool 210 Course Content (including study guides and lab handouts) on Blackboard 6.0 at <http://blackboard.uncfsu.edu>
2. Online Learning Center at [www.mhhe.com/shier](http://www.mhhe.com/shier)
3. Dynamic Human Version 2.0 (CD-ROM)
4. Biocourse.com

#### Journals:

Discover, Nature, Science, Science News, Science Digest, Scientific American