

**ZOOL 2004**  
**HUMAN ANATOMY AND PHYSIOLOGY I\***  
**Fall 2008**

**INSTRUCTOR:** Dr. James M. Britton – Professor of Biology

**OFFICE:** SB 105F

**OFFICE HOURS:** 10:00 - 11:00 a.m. MWF  
1:30 - 3:00 p.m. TR (Fri. aft. by appt.)

**TELEPHONE:** (501) 882-8274 or ext. 274 On campus

**E-MAIL:** jmbritton@asub.edu

**DIVISION CONTACT INFO:** If I can't be found, call or leave a message with Barbara Luke, Math/Science Secretary, SB 105, (501) 882-8215

**COURSE DESCRIPTION:** Structure and function of cells, tissues, integumentary system, skeletal system, muscular system and nervous system. Lecture 3 hours, laboratory 3 hours per week.

**PREREQUISITES:** BIOL 1004, Biological Science, or instructor consent.

**TEXTBOOK:** *Anatomy and Physiology. The Unity of Form and Function.*  
Kenneth Saladin. 4th ed.

**LAB MANUAL:** *A Study of the Cat: With Reference to Human Beings.*  
Walker/Homberger. 5<sup>th</sup> ed.

Note: *A Guide to Anatomy & Physiology Lab.* by Rust is recommended not required.

**EXAMINATIONS AND GRADING:** Four hour exams and a final exam will be given using the following format:

Hour Exams	4 @ 100 pts each	400 pts.
Final - Comprehensive Portion		100 pts.
	Non-comprehensive Portion	<u>100 pts.</u>
Total Points		600 pts.

Lecture exams will be structured as follows:

1/3 Labeling Diagrams

1/3 Fill in Blanks/Short Answer/Discussion

1/3 Multiple Choice

Grading scale will be as follows:

Above 87% - A      Grading scale may be adjusted

Above 77% - B      +/- 2% as deemed appropriate

Above 67% - C

Above 57% - D

Below 57% - F

### **INSTITUTIONAL LEARNING OUTCOMES:**

*ASU-Beebe is committed to providing students with a broad-based educational experience and focuses, through general education coursework, on five general education outcomes: Communication, Critical Thinking, Mathematical Concepts and Application, Scientific Inquiry and Methodology, Society and Self. The learning objectives of all courses are linked to these institutional learning outcomes to ensure that outcomes of individual courses are consistent with the university's institutional goals. These institutional learning outcomes can be viewed at [www.asub.edu](http://www.asub.edu).*

**\*\*COURSE OBJECTIVES:** Upon completion of this course, the successful student should be able to:

1. Identify and describe basic human tissue types
2. Identify the individual bones and major features of the human skeleton
3. Identify major muscles of the cat and their human counterparts
4. Identify the major structural features of the brain
5. Demonstrate a thorough knowledge of basic cell structure and function
6. Demonstrate a thorough knowledge of the basic anatomy of the integument and derivatives
7. Describe the mechanics of skeletal/muscular movement
8. Describe physiological mechanisms involved in maintenance of and loss of bone matrix
9. Describe physiological mechanisms involved in muscle contraction
10. Demonstrate a thorough knowledge of the basic structural and functional organization of the nervous system
11. Demonstrate proper use of the microscope, other lab equipment and proper lab technique
12. The student will participate in dissections that are appropriate for API

**\*\* Topical emphasis and depth of coverage subject to instructor preference and time constraints.**

**TOPICAL OUTLINE:**

- Unit I. Human Origins & Phylogenetic Relationships; Body Regions and Cavities; Basic Biochemistry; Cell Structure and Function  
Exam I
- Unit II. Histology; Homeostasis and Metabolism; Integument; Skeleton, Joints  
Exam II
- Unit III. Muscles; Structural Organization of the Nervous System  
Exam III
- Unit IV. Nervous Physiology; Central Nervous System  
Exam IV
- Unit V. Peripheral Nervous System; Autonomic Nervous System  
Final Exam

**HOMEWORK:** The successful student should expect to spend at least six (6) hours of study time outside class weekly. Regular outside reading from the text and materials in the library will be required.

**ATTENDANCE POLICY:** A student is permitted total absences equivalent to a total of two weeks of lecture or laboratory time. Absences in excess of this amount may result in the student's being dropped from the course with an F at the discretion of the instructor.

**MAKEUP POLICY:** Makeup exams will not be given without an approved, verifiable excuse. Makeup exams must be taken within 3 class days of a student's return to class.

**ACADEMIC HONESTY POLICY:** Cheating in any form; including but not limited to plagiarism, turning in work done by others, unauthorized possession of exams or use of unauthorized materials during exams; may result in no credit given for the work involved, the student being dropped from the course with an F, or suspension from the University as deemed appropriate by the instructor and/or administrative officials. University policy regarding academic honesty is set forth in the Student Handbook and will be followed.

**ACCOMMODATION STATEMENT:** *It is the policy of ASU Beebe to accommodate students with disabilities, pursuant to federal law and state law. Any student with a disability who would like to request accommodations should contact the Counselor/Coordinator of Disability Services at (501) 882-8263 at the ASU Beebe campus. Documentation review and accommodations for all ASU Beebe system students with disabilities are authorized by the Counselor/Coordinator of Disability Services.*

**DISCLAIMER:** This syllabus represents a "best case scenario" for the course and is subject to change as needs arise. Any changes will be communicated to the class as a whole, either verbally or in writing.

\* Subject to change as needs arise.