

## Biology 230 – Human Anatomy and Physiology – Fall 2009

Meets: 8:30-9:20 MWF in AH 335  
Instructor: S. Christopher Bennett, PhD  
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Office Hours: 9:30-10:20 MWF and by appointment.

Description: Selected details of the structure and function of all human organ systems are presented. The course is designed to serve students majoring in human health care-related fields.

Prerequisite: Biology 100 - Human Biology or equivalent.

Text: *Human Anatomy & Physiology, 6th ed.* E. N. Marieb, Benjamin Cummings.  
ISBN#:0-8053-5463-8

Objectives: Upon successful completion of the course, you should be able to:

- Describe the structure and function of the skeletal system including its joints.
- Describe the structure and function of the nervous system.
- Identify major muscles of the skull, trunk, and extremities.
- Describe the structure and function of skeletal, smooth, and cardiac muscle tissue.
- Describe the pattern of major blood vessels and the function of the circulatory system.
- Describe the structure and function of the respiratory system.
- Describe the structure and function of the digestive system.
- Describe the structure and function of the urinary system.
- Describe the structure and function of the reproductive system.

Grading: There will be 5 exams (each worth 100 points) including the fifth exam during final-exam week. Your final grade will be the sum of points earned on the 5 exams divided by 500, the total points possible. The grading scale is:  $A \geq 90 > B \geq 80 > C \geq 70 > D \geq 60 > U$ . You can at any time figure out your grade in the course by averaging the scores on your exams. If a significant illness or emergency will cause you to miss an exam notify me before the missed exam or you may not be allowed to make up the exam. If allowed to make up a missed exam, you must make up the exam promptly.

Attendance: Students should attend class and be on time; however, I understand that there may be illnesses or personal emergencies that may prevent you from attending class.

Cheating: Cheating is not allowed. If I find convincing evidence that a student cheated, I will deal with the incident appropriately (i.e., sanctions may include verbal or written warning; lowering of grade for assignment/activity; failure of class assignment; lowering of term grade; and a written report to the Provost). For more information see <http://web.fhsu.edu/universitycatalog/gen/academichonesty.asp>.

Disabilities: Any student in this class who has a disability that may prevent them from fully demonstrating their abilities should contact me personally as soon as possible so we can discuss accommodations.

## Biology 230 - Human Anatomy and Physiology – Fall 2009 Tentative Schedule

| Date   | Lecture | Topic                                       | Reading in Text |
|--------|---------|---|-----------------|
| Aug 24 | 1       | Introduction to Human A & P                 | Ch. 1           |
| 26     | 2       | Chemical basis of life                      | Ch. 2           |
| 28     | 3       | Cells                                       | Ch. 3           |
| 31     | 4       | Cells                                       | Ch. 3           |
| Sep 2  | 5       | Tissues                                     | Ch. 4           |
| 4      | 6       | Integumentary system                        | Ch. 5           |
| 7      |         | <b>Labor Day - no class</b>                 |                 |
| 9      | 7       | Bone  | Ch. 6           |
| 11     | 8       | Skeleton                                    | Ch. 7           |
| 14     | 9       | Articulations and movement                  | Ch. 8           |
| 16     | 10      | Muscular system                             | Ch. 10          |
| 18     | 11      | Muscular system                             | Ch. 10          |
| 21     | 12      | Muscular system                             | Ch. 9           |
| 23     |         | <b>Exam I</b> on Ch. 1-7                    |                 |
| 25     |         | Dr. Bennett in Bristol, England - no class  |                 |
| 28     | 13      | Nervous Tissue                              | Ch. 11          |
| 30     | 14      | Central nervous system                      | Ch. 12          |
| Oct 2  | 15      | Central nervous system                      | Ch. 12          |
| 5      | 16      | Peripheral nervous system                   | Ch. 13          |
| 7      | 17      | Autonomic nervous system                    | Ch. 14          |
| 9      |         | <b>Exam II</b> on Ch. 8-12                  |                 |
| 12     | 18      | Special senses                              | Ch. 15          |
| 14     | 19      | Endocrine system                            | Ch. 16          |
| 16     | 20      | Endocrine system                            | Ch. 16          |
| 19     | 21      | Heart                                       | Ch. 18          |
| 21     | 22      | Blood vessels                               | Ch. 19          |
| 23     | 23      | Blood vessels                               | Ch. 19          |
| 26     |         | <b>Exam III</b> on Ch. 13-16, 18            |                 |
| 28     | 24      | Blood                                       | Ch. 17          |
| 30     | 25      | Lymphatic system                            | Ch. 20          |
| Nov 2  | 26      | Lymphatic system                            | Ch. 20          |
| 4      | 27      | Immune system                               | Ch. 21          |
| 6      | 28      | Immune system                               | Ch. 21          |
| 9      | 29      | Respiratory system                          | Ch. 22          |
| 11     | 30      | Respiratory system                          | Ch. 22          |
| 13     | 31      | Digestive system                            | Ch. 23          |
| 16     |         | <b>Exam IV</b> on Ch. 17, 19-22             |                 |
| 18     | 32      | Digestive system                            | Ch. 23          |
| 20     | 33      | Digestive system                            | Ch. 23          |
| 23-27  |         | <b>Fall Break - no class</b>                |                 |
| 30     | 34      | Urinary system                              | Ch. 25          |
| Dec 2  | 35      | Urinary system                              | Ch. 25          |
| 4      | 36      | Urinary system                              | Ch. 25          |
| 7      | 37      | Fluid and electrolyte balance               | Ch. 26          |
| 9      | 38      | Reproductive system                         | Ch. 27          |
| 11     | 39      | Reproductive system                         | Ch. 27          |
| 14     |         | <b>Exam V</b> on Ch. 23-27 @ 8:30-10:10 am. |                 |