

# HUMAN ANATOMY AND PHYSIOLOGY II (BIOL. 214)

## LECTURE SYLLABUS, Spring, 2006

**Instructor: Dr. Vonnie D.C. Shields, Office- Smith 357, ext. 4-3130,  
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**Office hours: M, W, F 10 a.m-11 a.m. or by appointment**

**Lecture held in Smith Hall Rm. 264 (M, W, F 9 a.m.-9:50 a.m.)**

**Course web site: <http://learnonline.towson.edu>**

<u>Week Beginning</u>	<u>Lecture Topic</u>	<u>Chapter(s)</u>
Jan. 30	Introduction; homeostasis and biological control; fluid compartments	1, 27
Feb. 6	Fluid compartments (cont'd), hematology, and hemostasis	19
Feb. 13	Hemostasis (cont'd), immunity, circulatory anatomy; cardiac histology and electrophysiology	20- 22
Feb. 20	Electrophysiology (cont'd), the EKG and cardiac cycle; <b><u>EXAM 1*</u></b>	20
Feb. 27	Hemodynamics	21
Mar. 6	Regulation of blood pressure; microcirculation and fluid exchange across the capillary wall	21
Mar. 13	Respiratory anatomy; pulmonary ventilation; gas diffusion across the "respiratory membrane"	23
Mar. 19-26	<b>Spring break, no lectures</b>	23
Mar. 27	Blood oxygen and carbon dioxide transport; control of pulmonary ventilation; <b><u>EXAM 2</u></b>	

Apr. 3	Anatomy of the excretory system; the nephron and renal physiology	26
Apr. 10	Renal physiology; acid-base regulation	26, 27
Apr. 17	Chemical control and endocrinology	18
Apr. 24	Endocrinology	18
May 1	Digestive system; chemical digestion and nutrient absorption	24
May 8	Metabolism; the reproductive system	25, 28
May 15	Last day of lectures	

**First Lecture Exam: Friday, February 24<sup>th</sup>**

**Second Lecture Exam: Friday, March 31<sup>st</sup>**

**FINAL LECTURE EXAM: Thursday, May 18<sup>th</sup> (10:15 a.m-12:15 p.m.; Rm. 264)  
Semi Comprehensive**

**Lecture text: Martini, F. H. 2006. Fundamentals of Anatomy and Physiology. Prentice Hall. Seventh Edition.**

**Lecture Syllabus, Notes/Outline:** Will be posted **online on Blackboard**. Please note that you will likely want to print these notes. If do not have your own printer, you will incur a **xeroxing fee** if notes are printed at Towson University (e.g. library, etc.).

**Cheating Policy:** Anyone caught cheating will receive the grade of "0" on the exam in question and forfeits the privilege of erasing that grade by taking the final exam.

**Student Conduct:** In fairness to everyone enrolled in this course, it is critical that the best possible learning atmosphere be maintained in both the classroom and laboratory. Please enjoy your experience in Human Anatomy and Physiology II and get the most benefit from the course you can. At all times, however, be respectful of the rights and feelings of others. **Boisterous or disruptive behavior** of any kind **will not be tolerated**. You are **not allowed** to use your **cell phone** during the lecture. Please **do not come late** into lecture, since **attendance will be taken** at the **beginning of each lecture**.

**Grading:** Grading will be based upon scores earned on the three lecture exams (final exam included) and three laboratory exams (see lab schedule).

<u>Exam</u>	<u>Maximum Points Possible</u>
First lecture exam.....	50
Second lecture exam.....	50
Final Exam.....	75
First laboratory exam.....	34
Second laboratory exam.....	33
Third laboratory exam.....	33
Total points.....	<b>275</b>

At the conclusion of the course, each student's total point accumulation will be determined and converted to a percentage by comparison with the maximum total points possible (275).

**Percentage cut-offs for letter grades:** A = 92-100%; A- = 89-91.9, B+ = 86-88.9; B = 82-85.9%; B- = 79-81.9; C+ = 76-78.9, C = 70-75.9,%; D+ = 66-69.9, D = 60-65.9, F = <60%.

**Quizzes:** There will be **several** unannounced quizzes given during **lecture and/or lab periods**. These quizzes are **in lieu of** extra credit.

**Make-up Policy For Missed Lecture Exams:** There will be **no make-up exams given for lecture exams**. Students with a **valid** (i.e. medical) excuse (**documented and justifiable reason within Towson University policy guidelines**) will have the **average of their remaining grades** (lecture exams) **used in place of the missed exam**. The student must **notify me within 24 hours** if he/she does not write the exam (telephone, voicemail, e-mail).

**Lecture note:** You are **strongly encouraged** to attend **every** lecture. Students who miss regularly usually fail the course. If you cannot attend lecture regularly, you should drop the course before the end of the add/drop period.

See **laboratory syllabus** for details concerning the laboratory expectations.

**Aim of this course:** Biology 214 (Anatomy and Physiology II) is the second of a two-part course about the structure and function of the human body. This course will cover topics, such as fluid, electrolyte, and acid-base balance, functions and composition of blood, cardiovascular system, blood vessels and circulation, lymphatic system and immunity, endocrine system, respiratory system, digestive system, metabolism and energetics, urinary system, and reproductive system. It is meant to provide the student with a foundation for later study in health care, exercise physiology, and other fields related to health and fitness.