

BIO 194: ANATOMY AND PHYSIOLOGY
Summer 2008

Instructor: Arden C. Cumberbatch, MD.

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Credit Hours: 5

Class Hours: 4

Laboratory Hours: 3

Phone: 561-543-0750

Office Hour: TBA

I. Prerequisites: Successful completion of BIO 193 with a C or better.

II. Text & Materials:

Required:

Shier, David, Jackie Butler and Ricki Lewis. 2007. *Hole's Anatomy & Physiology*. Eleventh Edition. Dubuque, IA: William C. Brown Publishers.

Martin, Terry R. 2007. *Laboratory Manual: Hole's Anatomy & Physiology*. Eleventh Edition. Dubuque, IA: William C. Brown Publishers.

III. Course Description:

Introduces the student to the anatomy and physiology of the human body. The course will follow a systems approach to the structures of the human body and their functions. Hands-on laboratory experiences support classroom learning. Topics include: the cardiovascular system, the lymphatic system, immunity, the digestive system, nutrition and metabolism, the respiratory system, the urinary system, the reproductive system, human development and genetics. BIO 193 is the first half of this sequence.

IV. Competency Areas:

- A. Medical Terminology Describing the Human Body
- B. Structure and Function of the Human Body
- C. Laboratory Equipment and Procedures

V. Course Goals and Objectives: After successfully completing this course the student will:

- A. Identify the basic structures and functions of each body system.
- B. Describe the relationships between the body systems.
- C. Locate, define and use proper terminology for all structures.
- D. Demonstrate proper use of laboratory equipment.
- E. Demonstrate appropriate laboratory procedures.

VI. Course Requirements: To successfully complete this course, the student must:

- A. Complete all reading assignments.
- B. Answer assigned "Review Exercises" found at the end of each chapter.
- C. Complete all examinations with a minimum average of 70%.
- D. Participate in and complete all laboratory exercises.

VII. Examinations:

A. There will be **FOUR** lecture and laboratory tests given throughout the quarter. The 50 lecture questions will consist of multiple choice, true and false or matching questions. The 25 laboratory questions will consist of identification of objects and specimens presented in laboratory, short answer, labeling of diagrams and drawings, and conceptual questions regarding functional aspects. **The schedule and number of tests is subject to change.** None of these tests are comprehensive nor cumulative.

VIII. Evaluation Procedures:

A. Each lecture test and laboratory test is worth 75 points.

B. An academic performance grade will be given as an average percentage of total points, equal to the following grades according to Chattahoochee Technical College policy: 100 - 90% (A), 89 - 80% (B), 79 - 70% (C), 69 - 60% (D), and less than 60% (F).

C. A work ethics grade will also be given as ascribed by Chattahoochee Technical College. This grade will reflect evaluation of attendance, character, teamwork, appearance, attitude, productivity, organizational skills, communication, cooperation, and respect. The grading scale is as follows: exceeds expectations (3), meets expectations (2), needs improvement (1), and unacceptable (0).

IX. Disability Accommodations:

Students who need accommodations are asked to arrange a meeting during office hours during the first week of classes, or as soon as possible if accommodations are needed immediately. If you have a conflict with office hours, an alternate time can be arranged. To set up this meeting, please contact me. Bring a copy of your Accommodation Memo and an Instructor Verification Form to the meeting. If you do not have an Accommodation Memo but need accommodations, make an appointment with Disability Services at 770-528-4529.

X. Notice to Students Who Stop Attending Classes:

A. STUDENTS must initiate withdrawal from a course(s) by completing the appropriate form through the STUDENT SERVICES OFFICE.

B. Instructors WILL NOT initiate withdrawal for students who stop attending any course(s). Withdrawal is a STUDENT option.

C. STUDENTS withdrawing from a course(s) after the drop/add period through the end of the 5th week of the quarter (10/31) will receive a grade of "W".

D. STUDENTS withdrawing from a course(s) during the will receive a grade of "WP" or a "WF".

E. STUDENTS who have not withdrawn or do not attend class after the end of the 8th week of the quarter WILL NOT be withdrawn by the instructor and WILL receive the appropriate letter grade (A, B, C, D, F, S, or U).

XI. Academic Dishonesty:

A student is subject to disciplinary action by the institution which may include suspension or expulsion for academic dishonesty including cheating, plagiarism, and providing false information to the institution. Note: all forms of academic dishonesty including, but not limited to, cheating on a test, plagiarism, collusion, and falsification of information will be cause for discipline.

Cheating on a test is defined but not limited to the following:

A. Copying from another student's test paper.

B. Using materials during a test not authorized by the person giving the test.

C. Collaborating with any other person during a test without permission.

D. Knowingly obtaining, using, buying, selling, transporting, or soliciting, in whole or in part, the contents of any test.

E. Bribing any other person to obtain information about tests.

F. Substituting for another student or permitting any other person to substitute for oneself.

XII. Plagiarism:

Plagiarism is defined as the appropriation of any other person's work and the unacknowledged incorporation of that work in one's own work offered for credit. Collusion is defined as the unauthorized collaboration with other person in preparing work offered for credit.

XIII. Attendance Policy:

Students are expected to be punctual and attend all classes for which they are registered. Each student should recognize at the beginning of his/her postsecondary career that a mature acceptance of his/her responsibilities is a requisite for reasonable accomplishment in postsecondary work; this applies particularly in the area of class attendance. Students anticipating an absence or tardiness should contact the instructor in advance or provide notification as soon as possible. It is the responsibility of the student to account for instructional time missed and to make arrangements for make-up work at the convenience of the instructor. If the student does not attend classes, submit assignments, or, when applicable, contact instructors in a timely manner (either in person or by telephone), a failing grade(s) may be issued.

XIV. Offensive Statements:

Offensive statements regarding one's race, sex, creed, national origin, physical disability or mental stability are not appropriate and will not be tolerated. These statements will be considered a violation of the standards of conduct as stated in the current Chattahoochee Technical College catalog.

XV. Electronic Devices:

Electronic devices such as cellular phones with audible ringers will not be tolerated in the classroom.

XVI. Warranty:

Any graduate of Chattahoochee Technical College who is deficient in a competency identified in state program standard shall be retrained at the request of the employer at no cost to the employer or the employee for tuition or instructional fees. This warranty is valid for two consecutive years following the student's date of graduation.

XVII. Tentative Lecture, Laboratory and Test Plan: (Schedule is subject to changes.)

DATE	TEXT CHAPTER/TESTS	LABORATORY EXERCISES/TESTS
Day 1	Chapter13: Endocrinology	
	Chapter13: Endocrinology (Con't)	37: Endocrine System
	Chapter 14: Blood	
Day 2	Chapter 14: Blood (Con't)	38: Blood Cells 40: Blood Typing
Day 3	Chapter15: Cardiovascular System	41: Structure of the Heart 42: The Cardiac Cycle
	Chapter15: Cardiovascular System (Con't)	43: Factors Affecting the Cardiac Cycle 44: Blood Vessels 45: Pulse Rate and Blood Pressure 46: Major Arteries and Veins
Day 4	Test 1: Chapters 13, 14 & 15	
	Chapter16: Lymphatic System	48: Lymphatic System
Day 5	Chapter 17: Digestive System	
	Chapter 17: Digestive System (Con't)	49: Organs of the Digestive System
	Chapter 18: Nutrition and Metabolism	
	Chapter 18: Nutrition & Metabolism (Con't)	
Day 6	Test 2: Chapters 16, 17 & 18	
	Chapter 19: Respiratory System	52: Organs of the Respiratory System
	Chapter 19: Respiratory System (Con't)	54: Breathing and Respiratory Volumes/Capacities

		55: Control of Breathing
Day 7	Chapter 20: Urinary System	56: Structure of the Kidney
	Chapter 20: Urinary System (Con't)	57: Urinalysis
	Chapter 21: Water, Electrolyte and Acid-Base Balance	
Day 8	Test 3: Chapter 19,21 & 22	
	Chapter 22: Reproductive System	59: Male Reproductive System
	Chapter 22: Reproductive System(Con't)	62: Fertilization & Early Development
Day 9	Chapter 23: Human Growth/Development	
	Chapter 23: Human Growth/Development(Con't)	
	Chapter 24: Genetics	
TBA	Final Test 4: Chapters 22, 23 & 24	