Biology 20-52535 **Human Anatomy** **Fall 2012**
T TH 6:00 – 8:40, LFS 17

Instructor: Dr. Fleuridor, PhD
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Office Hours (LFS 5): Mon 11am-noon, Tues 5-6pm, Wed 11am-noon, Thurs 5-6pm

COURSE DESCRIPTION

Biology 20 is a 4 unit course on Human Anatomy. This course provides the basic understanding and working knowledge of the human body with the emphasis on the structure and function of the body at several levels: cellular, tissue, organ, system, and organismal. Prerequisite: Successful completion of Biology 1 or Biology 5. Recommended: high school chemistry course or equivalent.

1. Course Objectives: In the process of completing this course, students will:
   - A. assess the basic structure and function of each system in the human body.
   - B. assess the results of laboratory experiments and demonstrations.
   - C. illustrate the cell membrane, its electrical activity and conduction of action potentials.
   - D. compare the autonomic system and the endocrine.
   - E. analyze the cardiovascular system by performing an EKG and monitoring blood pressure.
   - F. evaluate lung and kidney function using computer simulations

2. Course Outcomes: Upon completion of this course, students will be able to:
   - A. identify the basic structure and function of each human system.
   - B. explain the cell membrane potential and how it becomes an action potential.
   - C. describe the autonomic nervous system using neurotransmitters and receptors.
   - D. identify the major endocrine glands and the hormones they secrete.
   - E. discuss the types of blood cells and their function.
   - F. demonstrate use of electrocardiograph and identify normal readings.
   - G. explain the functions of the lung and kidneys.
   - H. demonstrate critical thinking to perform laboratory experiments and demonstrations.

REQUIRED MATERIALS/BLACKBOARD

Martini, Timmons, & Tallitsch, Human Anatomy, 7th Edition, Pearson Benjamin Cummings.
Lab Manual for Human Anatomy by Michael Wood
Scantrons (882E)
Check your emails and blackboard account regularly for announcements, reading materials and assignments, and any changes in the syllabus. All lecture and lab handouts, lecture notes, course schedules will be posted on Blackboard. Visit http://blackboard.reedleycollege.edu and use your student ID number as both the user name and password to enter your account.

MAINTAINING A RESPECTFUL CLASSROOM

You are expected to respect one another, school property, and the instructor. You are responsible for your education, which includes asking questions, listening, studying, being on time, and seeking help when necessary.

No food or beverages allowed. Cell phone use will not be tolerated in this class; turn off your cell phones prior to class. Laptops may be used in this class; laptop users should sit in the back row to avoid distracting others.

Any student caught cheating or plagiarizing will be subject to the Reedley College disciplinary procedures (review the Reedley College catalog section on academic dishonesty).

Students with diagnosed disabilities should contact the Disabled Students Programs and Services' (DSP&S). Please give me a copy of the letter you receive from DSP&S detailing class accommodations you may need. If you require accommodation for test-taking please make sure I have the letter no less than three days before the test. If you have a need for an academic accommodation or materials in alternate media (i.e., Braille, large print, electronic text, etc.) per the Americans with Disabilities Act (ADA) or Section 504 of the Rehabilitation Act, please contact me as soon as possible.

ATTENDANCE AND DROP/ADD POLICY

Excuses for absences will be honored at my discretion. You are responsible for dropping yourself from the class if you wish to do so, prior to the drop date (Oct 15). Students (both enrolled and waitlisted) will be dropped from the course based on the following policy:

- Student does not attend the first lecture.
- Student does not attend the first lab.
- Student misses a cumulative 4 hours (lecture or lab) in the first three weeks.
- Student misses 6 hours (lecture or lab) up to drop date without providing an excuse.

EVALUATIONS AND GRADING

4 lecture exams (100 points each)	400
8 Quizzes (10 points each)	80
4 Lab Exams (100 points each)	400
10 Lab Reports (10 points each)	100
Final Exam	200
Total Points for the semester	1180 points

The grade you receive for the course will be based on the following scale:
90% + = A 80-89% = B 70-79% = C 60-69% = D 59% and Below = F

Lecture exams will be multiple-choice, fill in the blank, matching questions with short-answer or essay questions based on the main objectives of each chapter. Correct spelling and grammar is important. Write neatly; if I can't read it, I can't grade it! Your final exam will be cumulative.

LATE ASSIGNMENTS AND MAKE-UP POLICY

All lab reports must be turned in at the beginning of class. There are no make up lab reports or quizzes. You may, at my discretion, make up one lecture exam if you miss it due to extreme circumstances.

Tentative Lecture and Lab Outline

Lecture/Lab		Text Reading	
Tues: Week 1: History, Anatomical Terminology, Quadrants & Regions Thus: Lab #1		Ch 1	
Tues: Week 2: The Cell – Mitosis and Meiosis Thus: Lab #2 & #3		Ch 2 & 27	Lab Report #1 due
Tues: Week 3: Histology and the Integument Thus: Lab #4	QUIZ 1	Ch 3 & 4	Lab Report #3 due
Tues: Week 4: Histology and the Integument Thus: Lab #5	QUIZ 2	Ch 3 & 4	Lab Report #4 due
Tues: Week 5: **Sept 5 - Lecture Exam 1 and Lab Exam 1** Thus: Skeletal System		**Ch 1 – 4** Ch 5,6,7	
Tues: Week 6: Skeletal System Thus: Lab #6, 7 ,8		Ch 5,6,7	Lab Report #6 due
Tues: Week 7: Digestive System Thus: Lab #26	QUIZ 3	Ch 25	
Tues: Week 8: Urinary System Thus: Lab #27	QUIZ 4	Ch 26	Lab Report #26 due
Tues: Week 9: **Oct 9 - Lecture Exam 2 and Lab Exam 2** Thus: Muscular System Lab #10, 11, 12		**Ch 5-7, 25, 26** Ch 9, 10, 11	
Tues: Week 10: Cardiovascular System Thus: Lab # 21, 22, 23		Ch 20-22	Lab Report #10 due
Tues: Week 11: Reproductive System Thus: Lab #28	QUIZ 5	Ch 27	Lab Report #21 due
Tues: Week 12: Endocrine System Thus: Lab #20	QUIZ 6	Ch 19	Lab Report #28 due
Tues: Week 13: **Nov 5 - Lecture Exam 3 and Lab Exam 3** Thus: Nervous System		**Ch 9-11, 20-22, 27, 19** Ch 13-17	
Tues: Week 14: Nervous System Lab #13, 14, 15 Thus: Special Senses Lab #17, 18, 19		Ch 13-17 Ch 18	Lab Report #13 due
Tues: Week 15: Nervous System Thus: Thanksgiving – No Class	QUIZ 7	Ch 13-17	
Tues: Week 16: Respiratory System & Lymphatic Thus: Lab #25 & 24	QUIZ 8	Ch 24 & 23	
Tues: Week 17: **Dec 3 - Lecture Exam 4 and Lab Exam 4**			
Tues: Week 18: **Dec 10 - Final Lecture Exam – Cumulative**			