COURSE SYLLABUS
AND
INSTRUCTOR PLAN

Anatomy and Physiology I
BIOL 2401.01 & .03

John Vickrey

Summer Session II, 2012
Course Description:

Acquaints the student with processes of the human body. Includes chemical, cellular, tissue, and organ systems. Also covers integumentary, skeletal, muscular and nervous systems. Semester Hours 4 (3 lec/3 lab)

Prerequisites and/or Corequisites:

BIOL 1408, CHEM 1405, or VNSG 1420, or consent of division director. Both BIOL 2401 and BIOL 2402 should be taken to insure transferability.

Course Notes and Instructor Recommendations:

Course outlines and other material will be available on Blackboard for students to printout and bring to class in order to follow lecture. Students are expected to buy both the textbook and laboratory manual. Students are encouraged to read the textbook and lab manual on the subject material brought out during lecture and laboratory presentations, as well as to follow the outlines and other materials to fully comprehend the subject matter.

Students are expected to activate and monitor their MCC Blackboard and email account throughout the time of this course, and to use their MCC email to contact instructor.

Students provide the instructor with one package of Scantron forms 882 at the beginning of the semester. The instructor brings Scantrons to class for each lecture exam and final, and the students are to bring appropriate writing implements: a number 2 pencil and good quality eraser.

Instructor Information:

Instructor Name: John Vickrey
MCC E-mail: jvickrey@mclennan.edu
Office Phone Number: 254-299-8185
Office Location: Science Building Room 243
Office/Teacher Conference Hours: 4-5 PM Monday through Thursday and/or by appointment

Required Text & Materials:

Title: Gerard J Totora and Bryan Derrickson
Author: Principles of Anatomy and Physiology
Edition: 12th (2009)
Publisher: John Wiley & Sons, Inc.
Methods of Teaching and Learning:

Lectures will include discussions of anatomical structures and terminology, concepts of physiological functions with appropriate in-class and/or homework assignments given to aid in learning material. Laboratory will include anatomical identification of models, diagrams and photomicrographs, in-class and/or homework assignments from the laboratory manual as well as some physiological experiments via computer simulation maybe assigned to emphasize the material. There are four laboratory practicals given during the semester which consist of fifty questions worth two points each.

Course Objectives and/or Competencies:

Upon successful completion of this course the student should be able to:

1. Describe the physical organization of the human body and demonstrate use of basic anatomical terminology.

2. Describe and apply the concept of homeostasis as it relates to the functioning of body systems.

3. Describe the chemical level of organization of the human body.

4. Describe the structure and function of cells of the human body.

5. Identify and describe the major microscopic anatomy of the basic tissue types of the human body including examples of their functions and locations.

6. Identify and describe the structure and function of the integumentary system.
7. Describe the physiology of the human skeletal system and identify major components of the system.

8. Describe the physiology of the muscular system.

9. Identify and describe the major microscopic and gross anatomical components of the muscular system including location and function.

10. Describe the physiology of the nervous system including sensory, integrative, motor, and homeostatic functions.

11. Identify and describe the major microscopic and gross anatomical components of the nervous system including location and function.

12. Identify and describe the physiology and major components of the organs of the special senses.

**Course Outline or Schedule:**

**Lecture:** Tentative lecture exam schedule. Any changes will be announced in class.

- Chapter 1: The Human Body: An Orientation
- Chapter 2: Chemistry Comes Alive
- Chapter 3: Cells: The Living Units
- Chapter 4: Tissue: The Living Fabric
- Chapter 5: The Integumentary System

**Week 2 Lecture Exam 1**

- Chapter 6: Bones and Skeletal Tissues
- Chapter 7: The Skeleton
- Chapter 8: Joints
- Chapter 9: Muscles and Muscle Tissue
- Chapter 10: The Muscular System

**Week 4 Lecture Exam 2**

- Chapter 11: Fundamentals of the Nervous System and Nervous Tissue
- Chapter 12: The Central Nervous System
- Chapter 13: The Peripheral Nervous System and Reflex Activity
- Chapter 14: The Autonomic Nervous System
Chapter 15: The Special Senses

Week 5  Lecture Exam 3
Final Exam: Chapters 14 and 15

Lab:  Tentative lab exam schedule. Any changes will be announced in class.
Anatomical terminology
Microscope and its usage
Microscope: mitosis, cell structure, tissue identification
Microscope: mitosis and tissue identification

Week 2  Lab Exam 1 (terminology, microscope, mitosis, tissues)
Skeletal System: Axial & Appendicular
Skeletal System: Axial & Appendicular
Skeletal System: Axial & Appendicular

Week 3  Lab Exam 2 (skeletal system)
Muscle Tissue & System, Joints
Muscle Tissue & System, Joints
Muscle Tissue & System, Joints

Week 4  Lab Exam 3 (joints, muscular system)
Nervous tissue, brain, spinal cord, special senses
Nervous tissue, brain, spinal cord, special senses
Nervous tissue, brain, spinal cord, special senses

Week 5  Lab Exam 4 (Nervous system, eye, ear)

Course Grading Information:
The final grade is determined by three lecture exams, four lab practicals, a final exam and other assignments: consisting of assigned lab review sheets, homework assignments and pop quizzes.
The final grade for the class will be determined from the following formula:
0.8(Lecture exam average) + 0.1(Assignment average) + 0.1(Final exam)
1. **Grading Scale in Percentages**

   100-90 = A  
   89-80 = B  
   79-70 = C  
   69-60 = D  
   59-0 = F

2. **Lecture Exams**

   Lecture exams are typically 100 questions which consist mainly multiple choice, some true/false and matching. **Students provide the instructor with one package of Scantron form 882 at the beginning of the semester.** The instructor brings Scantrons to class for each lecture exam and final. The student brings appropriate writing instrument: a number 2 pencil and good quality eraser.

3. **Lab Exams**

   Laboratory exams are typically fifty questions worth two points each with bonus questions sometimes added. Students need a pen or pencil for the laboratory examinations. An answer sheet is given to the students for the lab exam. There are four lab exams during the semester. **Word lists will not be provided for any exam.**

   Students are expected to observe and follow the academic integrity policy set by MCC. Cheating will not be tolerated, and comes in many different forms: turning in others work as your own, looking on others papers during an exam, discussion with those that have already taken the exam as well as the usage of cell phones. The penalties for cheating can range from a zero for every student involved to immediate dismissal from class and/or the college.

**Late Work, Attendance, and Make Up Work Policies:**

All due dates will be announced in class. If you are unable to make a deadline it is your responsibility to **notify the instructor prior to the due date.** The student should expect a penalty of ten points to be deducted per day when any assignment is late including the weekends. No make-up for missed lecture and/or laboratory exams should be expected and will not be available automatically. Make-ups for any work missed are on a case by case basis where the student has a authorized excuse for missing the examination.

**Student Behavioral Expectations or Conduct Policy:**

Each student is expected to behave in a civil and respectful manner toward the instructor and other students. If a student fails to act in an appropriate manner, the student may be asked to leave the class.
If you are consistently tardy to class, the instructor will discuss this problem with the student, and all subsequent times the student is late it will be considered an absence. Cell phones must be on vibrate or silent while in class. If you need to answer a call quietly leave the class to do so. Text messaging will not be tolerated if it interferes with the learning environment.

No video and audio recordings allowed during lecture or laboratory presentations.

No children, friends, family members, or anyone else not enrolled in the course is allowed to attend.

You are expected to follow all laboratory safety rules as presented to you in class. You may not eat or drink in the laboratory.

**MCC Academic Integrity Statement:**

The Center for Academic Integrity, of which McLennan Community College is a member, defines academic integrity as “a commitment, even in the face of adversity, to five fundamental values: honesty, trust, fairness, respect, and responsibility. From these values flow principles of behavior that enable academic communities to translate ideals into action.” Individual faculty members determine their class policies and behavioral expectations for students. Students who commit violations of academic integrity should expect serious consequences. For further information about student responsibilities and rights, please consult the McLennan website and your Highlander Student Guide.

**Academic Integrity Statement:**

Any student caught **plagiarizing or cheating will receive an F for that assignment with the possibility of withdrawal** from the course. Each incidence of cheating will be reported to the Discipline Coordinator as soon as possible, and further action may be taken by the Discipline Coordinator.

Cheating includes but is not limited to using your homework, notes, books, the internet, or any other source while taking a quiz or exam. Copying answers from another student’s paper or turning in work that is not your own is another form of cheating. Telling others about the examination whether it is either a lecture or laboratory exam is considered cheating. Plagiarizing is copving written information from a source not your own. Cheating only hurt yourself in the
long run. Helping someone else cheat hurts both of you. If you are having trouble or feel panic coming on, contact the instructor.

**MCC Attendance Policy:**

Regular and punctual attendance is expected of all students, and each instructor will maintain a complete record of attendance for the entire length of each course, including online and hybrid courses. Students will be counted absent from class meetings missed, beginning with the first official day of classes. Students, whether present or absent, are responsible for all material presented or assigned for a course and will be held accountable for such materials in the determination of course grades.

Please refer to the [Highlander Guide](#) for the complete policy.

**ADA Statement:**

In accordance with the requirements of the Americans with Disabilities Act (ADA), and the regulations published by the United States Department of Justice 28 C.F.R. 35.107(a), MCC’s designated ADA coordinator, Mr. Gene Gooch - Vice President, Finance and Administration shall be responsible for coordinating the College’s efforts to comply with and carry out its responsibilities under ADA. Students with disabilities requiring physical, classroom, or testing accommodations should contact Ms. Renee Jacinto, Disabilities Specialist, Student Services Center, Student Development Department, Room 227 or at 299-8122 or rrjacinto@mclennan.edu

**TITLE IX**

“No person in the United States shall, on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any education program or activity receiving Federal financial assistance.”

Legal Citation: Title IX of the Education Amendments of 1972, and its implementing regulation at 34 C. F. R. Part 106 (Title IX)

In accordance with the requirements of the Title IX Education Amendments of 1972 MCC’s designated Title IX Coordinator, Al Pollard – Vice President, Program Development/EEO Officer and Deputy Coordinator, Phyllis Blackwood – Director of Human Resources shall be responsible for coordinating the College’s effort to comply with and carry out its responsibilities under Title IX.
Contact information

Al Pollard, Title IX Coordinator
Vice President, Program Development
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Phyllis Blackwood, Title IX Deputy Coordinator
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